TOSHIBA

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SERVICE MANUAL

Projection Television

46HM84
52HM84
62HM84

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. When replacing a chassis in the cabinet, always be certain that all the prospective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety character istics as specified in the parts list may create shock, fire, or other hazards.

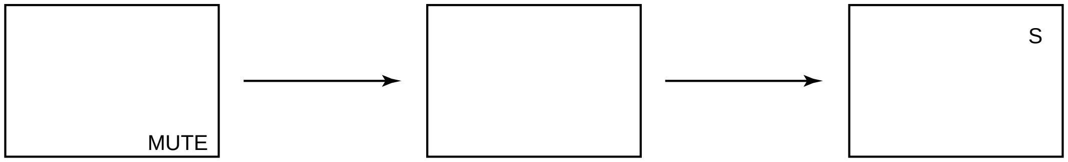
SERVICE MODE

1. ENTERING SERVICE MODE

1) Press MUTE button twice on Remote Control.

2) Press MUTE button again and keep pressing.

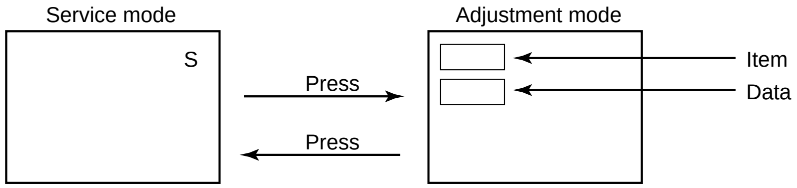
3) While pressing the MUTE button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-1 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 8)

4. ADJUSTING THE DATA

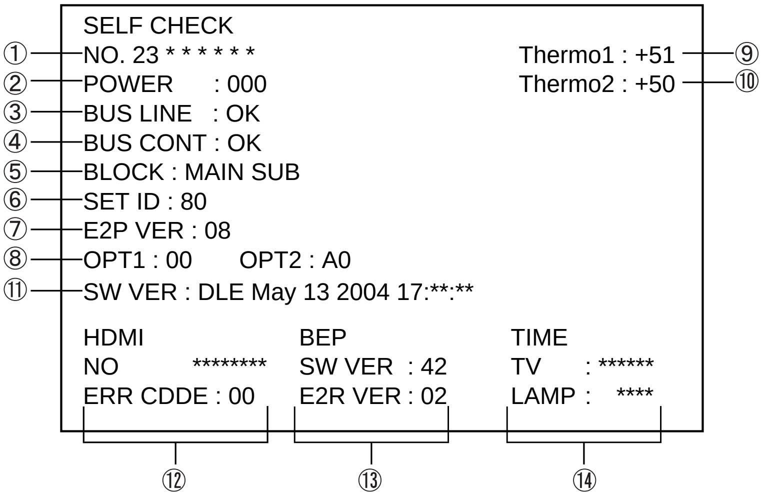
1) Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

5. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

6. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s is executed properly.
2) During diagnosis, the following displays are shown.



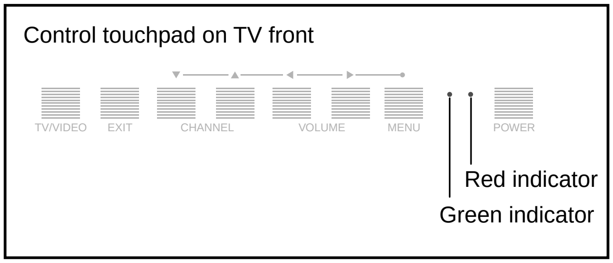
```
SELF CHECK
NO. 23 * * * * * *                          Thermo1 : +51
POWER      : 000                            Thermo2 : +50
BUS LINE   : OK
BUS CONT : OK
BLOCK : MAIN SUB
SET ID : 80
E2P VER : 08
OPT1 : 00       OPT2 : A0
SW VER : DLE May 13 2004 17:**:**

HDMI                  BEP                TIME
NO          ********  SW VER  : 42       TV      : ******
ERR CDDE : 00         E2R VER : 02       LAMP :    ****
```

① Part number of microprocessor (IC609)
② Operation number of protection circuit (The number of times of the power supply OFF by fan stop) . . . . “000” is normal.
③ BUS line check — “OK” .... Normal
“SCL-GND” or “NG” .... SCL-GND short circuit
“SDA-GND” or “NG” .... SDA-GND short circuit
“SCL-SDA” or “NG” .... SCL-SDA short circuit
④ BUS line ACK (acknowledge) check
“OK” .... Normal
⑤ Sync. signal check — Green display ..... Normal
Red display .... NG
MAIN .... Main sync
SUB .... Sub sync (when turn on the PIP)
⑥ ID code for TV Set
⑦ Version of "EEP"
⑧ Data for "OPT"
⑨ Temperature of DMD
⑩ Temperature of the color wheel neighborhood
⑪ Software version history
⑫ HDMI Software
NO ***** .....Serial No.
ERR CODE .....Error Code
⑬ BEP Software Version
SW VER : **..... Version
E2P VER : ** EEP ROM Version
⑭ Use time
TV .....TV set on time (hour)
LAMP.....LAMP set on time (hour)
(It may shift from TV set on time.)

7. LED indications

The green and red LED lights on the TV control touchpad (on the lower right corner of the TV screen) indicate the TV's current status, as follows:

- Green ON = Control touchpad being pressed.
- Red ON = Power ON.
- Green and/or Red blinking
  (see table below for condition and solution).


Control touchpad on TV front

	LED Indication	Condition	Solution
1	Red and Green turn off.	Power supply OFF. (AC)	
2	Red and Green turn off.	Power supply OFF. (Standby) (North America)	
3	Red light solid and Green off.	Power supply ON.	
4	Red and Green lights solid.	Touched the touchpad	
5	Green blinks at 1-second intervals; Red off.	Lamp LPS mode	
6	Green blinks at 0.3-second intervals; Red lights solid.	The lamp is not working properly.	The TV automatically will try to reset itself three times.
7	Green lights solid and Red blinks at 0.5-second intervals.	The lamp unit door is not seated properly. (U)	Turn the POWER OFF and unplug the power cord. Review “How to replace the lamp unit” on pages 12-14 to ensure that the lamp unit door is installed securely.
8	Green and Red blink at 1-second intervals.	The lamp is not working properly after the third automatic reset (see item #7). (U)	Turn the POWER OFF and then ON again. If the problem persists, replace the lamp unit (see pages 12-14).
9	Red blinks at 0.5-second intervals; Green off.	FAN (Light engine unit) has stopped.	• Is the output voltage of the supply voltage regulator for the FAN in the power circuit normal? • Has dust accumulated in the FAN? → If the output voltage is not abnormal, replace the faulty FAN with a new one.
10	Red blinks at 1-second intervals; Green off.	BUS line is damaged	• Check the faulty device through the self diagnostics function under SERVICE mode. • Does BUS line (SCL, SDA) work normally? → If the BUS line is under abnormal conditions, replace the faulty device with a new one.
11	Red blinks three times; Green off.	The color wheel has stopped.	• Is the output voltage of the power supply circuit normal? → If the output voltage is normal, replace the engine with a new one.
12	Red and Green blink three times.	Temperature rises abnormally.	• Is the ventilating hole in the set (exhaust slot on the rear) blocked or covered? • Is FAN rotating normally? • Has dust accumulated in the ventilating hole? → If no abnormally conditions are found, replace the engine with a new one.

(U) is restoration by the user.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Item	Name of adjustment	Preset	Data
RCUT	R CUT OFF	60H	←
GCUT	G CUTOFF	60H	←
BCUT	B CUT OFF	64H	←
RDRV	R DRIVE	48H	←
GDRV	G DRIVE	53H	←
BDRV	B DRIVE	5FH	←
BRTC	BRIGHT CENTER	76H	←
SCNT	SUB CONTRAST FOR TV	20H	←
COLC	COLOR CENTER	D0H	←
UVTT	BASE BAND TINT	40H	←
CNTX	SUB CONTRAST MAX	7FH	←
HPOS	H-POSITION (PAL/DFS)	00H	←
VPOS	V-POSITION DC SHIFT (PAL/DFS)	00H	←
CWDH	COLOR WHEEL DELAY (HIGH)	00H	←
CWDL	COLOR WHEEL DELAY (LOW)	FAH	←
DMDB	DMD BIAS	03H	←
OPT0	TV SET OPTION 1	00H	←

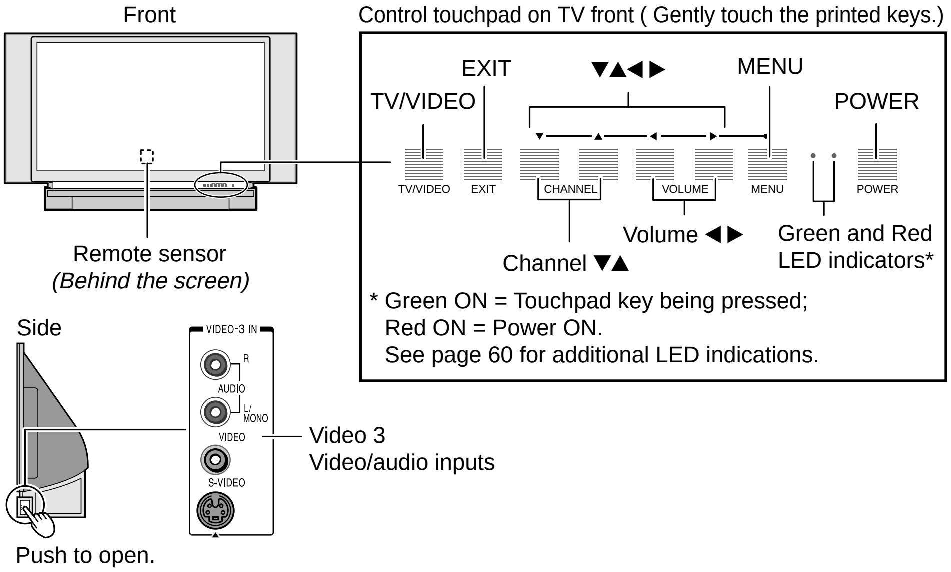
Item	Name of adjustment	Preset	Data
OPT1	TV SET OPTION 2	A0H	←
TVOP	TV OPTION	40H	←
PLLW0	PLL WAIT TIME	14H	←
PLLW1	PLL WAIT TIME	03H	←
PLLW2	PLL WAIT TIME	0FH	←
PLLW3	PLL WAIT TIME	05H	←
PLLW4	PLL WAIT TIME	14H	←
PLLW5	PLL WAIT TIME	04H	←
V01	VOLUME (DATA)	23H	←
V25	VOLUME (DATA)	4AH	←
V50	VOLUME (DATA)	63H	←
V75	VOLUME (DATA)	6FH	←
V100	VOLUME (DATA)	73H	←
MODH	MODUS DATA HIGH	20H	←
MODL	MODUS DATA LOW	91H	←
PRES	FMAM PRESCALE	24H	←
SCTH	VOLUME SCART OPTION HIGH	73H	←
SCTL	VOLUME SCART OPTION LOW	01H	←

Table-1

Note:
The image system data of RCUT-CNTX is different by each image format.
The NTSC value is indicated in the table.

LOCATION OF CONTROLS

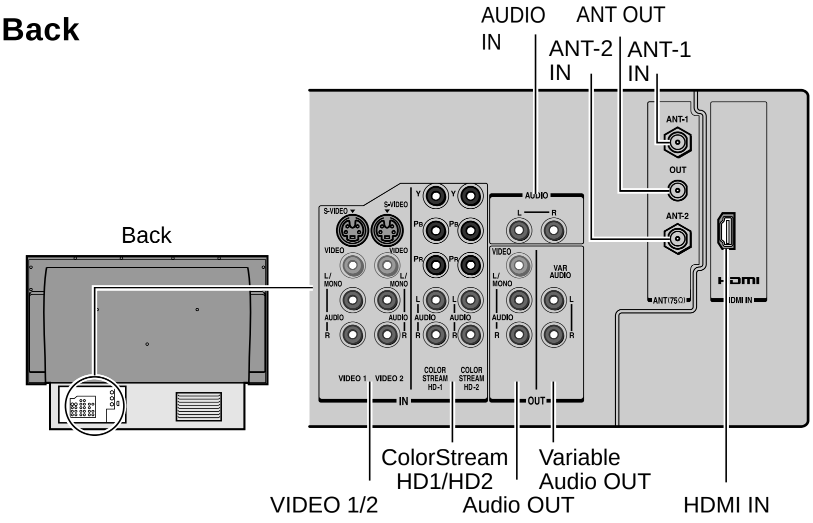
Front



Front
Control touchpad on TV front (Gently touch the printed keys.)
EXIT
▼▲◀ ▶
MENU
TV/VIDEO
POWER
TV/VIDEO
EXIT
CHANNEL
VOLUME
MENU
POWER
Volume ◀ ▶
Green and Red LED indicators*
Channel ▼▲
Remote sensor
(Behind the screen)
Side
VIDEO-3 IN
R
AUDIO
L/ MONO
VIDEO
S-VIDEO
Video 3
Video/audio inputs
Push to open.

* Green ON = Touchpad key being pressed;
Red ON = Power ON.
See page 60 for additional LED indications.

Back



AUDIO IN
ANT OUT
ANT-2 IN
ANT-1 IN
Back
ANT-1
OUT
ANT-2
ANT(75Ω)
HDMI IN
S-VIDEO
VIDEO
L/ MONO
AUDIO
R
Y
PB
PR
L
AUDIO
VAR AUDIO
VIDEO 1
VIDEO 2
COLOR STREAM HD-1
COLOR STREAM HD-2
IN
OUT
ColorStream HD1/HD2
Variable Audio OUT
VIDEO 1/2
Audio OUT
HDMI IN

Remote Control

POWER turns the TV on and off

RECALL displays screen information

SLEEP sets the TV to turn off at a specific time

TV/VIDEO selects video input source

MUTE mutes the sound

Device Switch switches between TV, CBL/SAT, VCR and DVD
Set to "TV" to control the TV.

CH (channel) ▲▼ cycles through programmed channels

Channel Numbers (0-9, 100) allow direct access to channels

VOL (volume) ▲▼ adjusts the volume level

CH RTN returns to the memorized channel

MENU allows access to on-screen programming menus

ENTER activates the function settings in the menu

▲▼◀▶ select or adjust programming menus

POP CH ▲▼ selects the POP (picture-out-picture) channel

FAV ▲▼ cycles through favorite channels

FAVORITE allows access to the favorite channel search function

PIC SIZE cycles through the five picture sizes: Natural, Theater Wide 1, 2, 3, and Full

EXIT exits programming menus

SPLIT turns the POP feature on and off

SOURCE selects the POP picture source

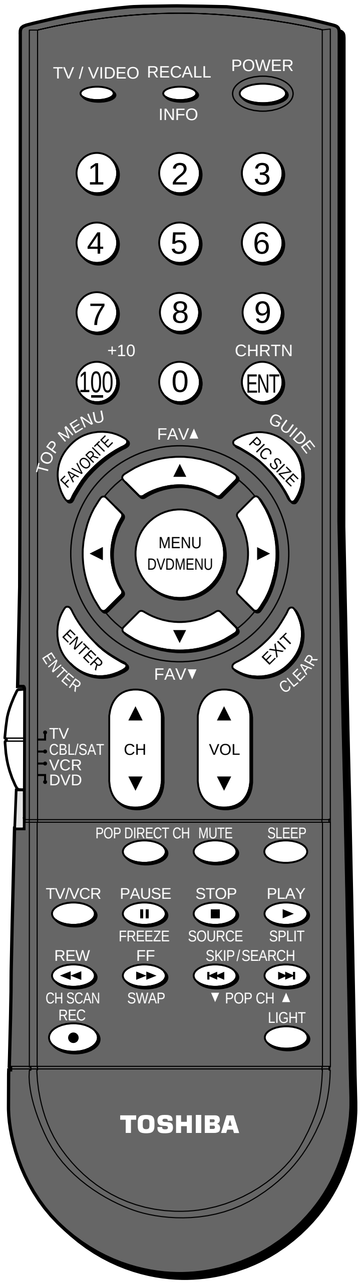
FREEZE freezes the picture. Press again to restore the picture.

SWAP switches the main and POP pictures

POP DIRECT CH allows direct access to POP channels

CH SCAN allows access to the programmed channel search function

LIGHT illuminates the keypad for five seconds


TV / VIDEO
RECALL
POWER
INFO
1
2
3
4
5
6
7
8
9
+10
CHRTN
100
0
ENT
TOP MENU
FAVORITE
FAV▲
GUIDE
PIC SIZE
MENU
DVDMENU
ENTER
ENTER
FAV▼
EXIT
CLEAR
TV
CBL/SAT
VCR
DVD
CH
VOL
POP DIRECT CH
MUTE
SLEEP
TV/VCR
PAUSE
STOP
PLAY
FREEZE
SOURCE
SPLIT
REW
FF
SKIP/SEARCH
CH SCAN
SWAP
▼ POP CH ▲
REC
LIGHT
TOSHIBA

Note:
The error message "Not Available" will appear if you press a key for a function that is not available.

PROGRAMMING CHANNEL MEMORY

Adding channels to the TV’s memory

When you press Channel ▲ or ▼, your TV will stop only on the channels stored in the TV’s channel memory.

Follow the steps below and on the next page to program all active channels into the TV’s memory.

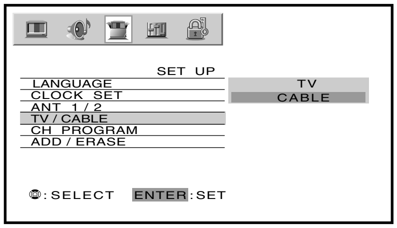
Note:
To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.

Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 25).

To program channels automatically:

1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ until the TV/CABLE is highlighted, and then press ENTER to display the pull-down menu.
3. Press ▲ or ▼ to highlight either TV or CABLE, depending on which you use. If you use an antenna, highlight TV; if you use cable, highlight CABLE.

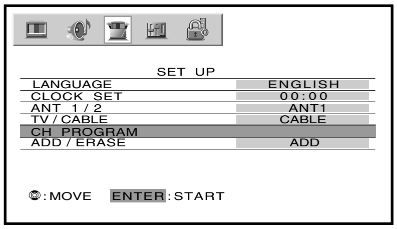


SET UP
LANGUAGE
CLOCK SET
ANT 1 / 2
TV / CABLE
CH PROGRAM
ADD / ERASE

TV
CABLE

: SELECT ENTER : SET

4. Press ENTER.
5. Press ▼ to select CH PROGRAM.

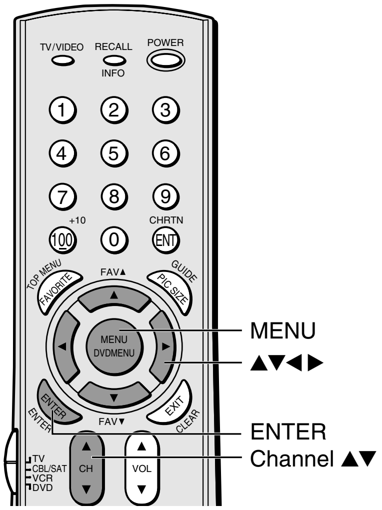


SET UP
LANGUAGE ENGLISH
CLOCK SET 00:00
ANT 1 / 2 ANT1
TV / CABLE CABLE
CH PROGRAM
ADD / ERASE ADD

: MOVE ENTER : START

6. Press ENTER to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.

   While the TV is cycling through the channels, the message “Programming Now—Please Wait” appears.
7. When channel programming is complete,the message “Completed” appears.
8. Press Channel ▲ or ▼ to view the programmed channels.

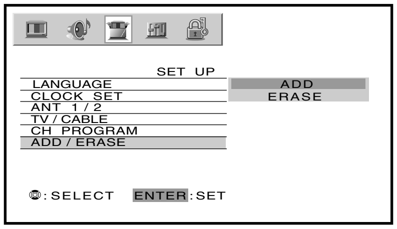


Adding and erasing channels manually

After you have programmed the channels automatically, you can manually add or erase specific channels.

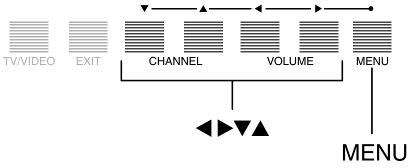
To add or erase channels:

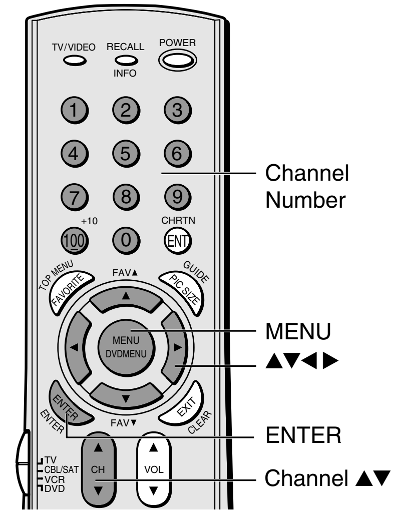
1. Select the channel you want to add or erase. If you are adding a channel, you must select the channel using the Channel Number buttons.
2. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
3. Press ▲ or ▼ to highlight ADD/ERASE, and then press ENTER to display the pull-down menu.


SET UP
LANGUAGE
CLOCK SET
ANT 1 / 2
TV / CABLE
CH PROGRAM
ADD / ERASE
ADD
ERASE
: SELECT
ENTER : SET

4. Press ▲ or ▼ to select ADD or ERASE, depending on the function you want to perform.
5. Repeat steps 1-4 for other channels you want to add or erase.

Control touchpad on TV front


TV/VIDEO
EXIT
CHANNEL
VOLUME
MENU
◀▶▼▲
MENU


TV/VIDEO
RECALL
INFO
POWER
1
2
3
4
5
6
7
8
9
+10
100
0
CHRTN
ENT
TOP MENU
FAVORITE
FAV▲
GUIDE
PIC SIZE
MENU
DVDMENU
ENTER
FAV▼
EXIT
CLEAR
TV
CBL/SAT
VCR
DVD
CH
VOL
Channel Number
MENU
▲▼◀▶
ENTER
Channel ▲▼

LAMP UNIT REPLACEMENT

Cautions when replacing LAMP UNIT (SK02)

The light source for this TV is a mercury lamp with internal atmospheric pressure that increases during use. The lamp has a limited service life that varies depending on user settings. If you use the lamp beyond its service life:

- you may notice a reduction in the colors and/or brightness of the picture; and
- the strength of the quartz glass in the lamp will be reduced and the lamp may rupture (often making a loud noise when this happens). If the lamp reputres, the TV will not operate until the lamp unit is replaced.

Note: The lamp unit is designed so broken lamp glass remains securely inside the lamp unit.

CAUTION: Always handle the lamp unit with care.
The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing edges or pinch points.

When to replace the lamp unit

You should replace the lamp unit:

- if the picture darkens and/or colors fade;
- if the lamp does not light; or
- If you hear a loud noise and the picture goes black, which may indicate a lamp rupture (LED indication #8). See LED indications on page 6.

1. Turn off the TV and unplug the power cord.

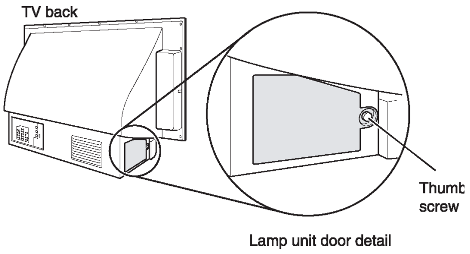
WARNING: Eye damage may result from directly viewing the light produced by this lamp. Always turn off the TV and unplug the power cord before opening the lamp unit door.

2. STOP! Allow the lamp to cool for at least one (1) hour before replacing it.

CAUTION: HOT SURFACE

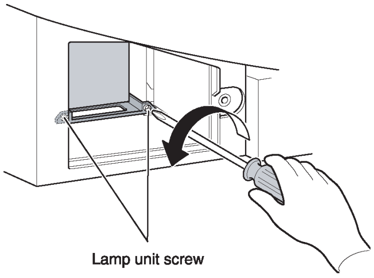
The temperature of the lamp immediately after use exceeds 392 F (200 C). Touching the lamp at this temperature will result in injury. **ALLOW THE LAMP TO COOL FOR AT LEAST ONE (1) HOUR BEFORE REPLACING IT.**

3. On the back of the TV, loosen the thumb screw (by hand) on the lamp unit door, and then remove the lamp unit door.

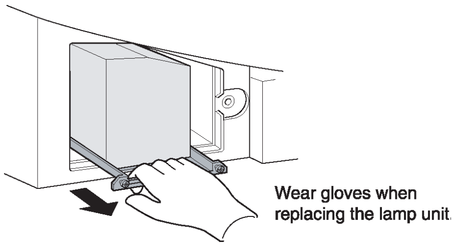


WARNING: The lamp unit door is provided with an interlock to reduce the risk of electric shock and excessive ultraviolet radiation. **Never defeat its purpose or attempt to service without removing the lamp unit door completely.** Failure to follow this WARNING may result in death or serious injury.

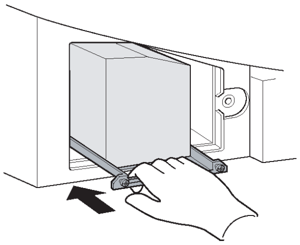
4. Using a manual screwdriver, loosen two screws on the lamp unit.



5. Grasp the lamp unit handle and gently pull the lamp unit straight out of the TV. Set the old lamp unit aside.



6. Carefully insert the new lamp unit straight into the TV until it is fully seated.

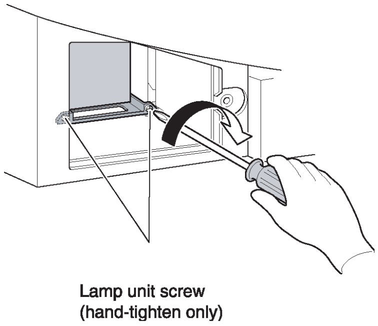


Note :

- Never subject the lamp unit to excessive shock.
- Never touch the lamp unit glass or otherwise get it dirty.
- Doing so may affect the image quality and reduce the service life of the lamp. See “Cleaning the lamp unit glass” below.

7. Using a manual screwdriver, tighten two lamp unit screws.

Note:Hand-tighten only. Do not use an electric screwdriver.

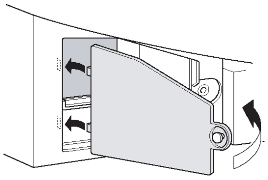


Cleaning the lamp unit glass

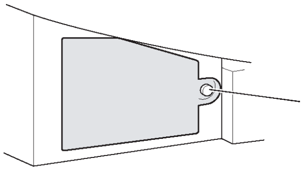
If you accidentally touch the lamp unit glass or otherwise get it dirty, wipe it with a lint-free lens cleaning cloth (such as a cloth for cleaning camera lenses or eyeglasses).

CAUTION: NEVER clean a hot lamp with any type of flammable liquid or aerosol cleaning agent. Many ordinary cleaning agents (such as glass cleaners) contain chemicals that may be flammable at certain temperatures. If the lamp unit is not allowed to cool for at least one (1) hour, such chemicals may ignite.

8. Reattach the lamp unit door, making sure to insert the hook on the left side of the lamp unit door inside the opening in the TV cabinet.


Insert the hook inside
the TV cabinet opening.
Lamp unit door

9. Replace the thumb screw and hand-tighten.


Thumb screw
(hand-tighten only)
Lamp unit door

NOTE: Make sure the lamp unit and screw are installed securely; otherwise, the TV may not turn on and the lamp life may be shortened.

10. Plug in the power cord and turn on the TV. After the initial warmup period (which may take up to 45 seconds for full picture brightness), the TV should operate normally. If any of the following conditions exist, turn off the TV, unplug the power cord, and repeat steps 1-9 to ensure that the lamp unit and lamp unit door are installed correctly:
    - No picture
    - Dark picture
    - TV will not turn on

LIGHT ENGINE REPLACEMENT

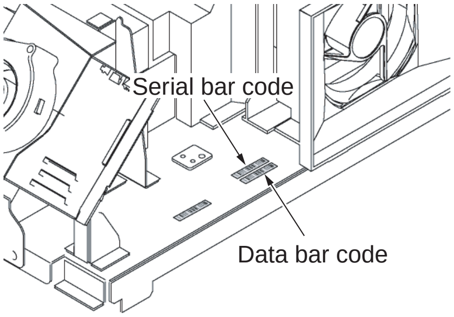
Cautions when replacing LIGHT ENGINE

LIGHT ENGINE UNIT:
A271 : PJ-TB25-46/52/62 (Including with SK02 to SK08)
SK01: PJ-TB-25-46S/52S/62S
(Including with SK03 to SK08 except SK02)

- LIGHT ENGINE is a heart of the TV and emits high heat. Make sure to replace it after turning off the TV and wait for sufficient cool down. (More than one hour is recommended.)
- Do not impact during replacement; otherwise, some parts may be damaged.
- Do not touch optical lens. Adhesion of dirt may deteriorate its performance.
- Do not loosen any screw other than those to be removed for adjustment or replacement.
- LIGHT ENGINE emits ultraviolet rays when the TV is ON. Make sure to be careful.

1. Replacement of Light Engine Unit

1-1. When Light Engine Unit is replaced with a new one, adjustment is required. Adjusted values are described in bar code, and the values of bar code must be converted to the adjusted values for the setup. There are 2 types of bar code.



Serial bar code
Ex. 52A000A111111
52: Inch size
A111111: Serial numbers

Data bar code (CW: color wheel)
Ex. A111111B1111
1111: CWdelay number: 4digits
B: DMD bias value
A111111: Substrate serial numbers

1-2. Adjustment is made from service mode. The adjusting items consist of CWDL, CWDH and DMDB.

CWDL CWDH

When CW delay number of the data bar code is 0450:

0450 indicates ⇒ 450 ⇒ 45.0
Double 45.0 to form hexadecimal number (HEX).

45.0 x 2=90 ⇒ 5A (hexadecimal)
The adjusted value becomes “5A” for CWDL and “00” for CWDH.
If hexadecimal number forms 3 or 4 digits, the latter 2 digits indicate CWDL while the first 2 digits indicate CWDH.
(For 3 digits, CWDH=0*)

Note:
For converting decimal number to hexadecimal number, see the conversion table on the next page.

DMDB

Read DMD bias value described in alphabet from the data bar code. In service mode, DMDB value is converted and fixed by the following table.

DMD value in bar code	Adjusted value (Hex)
B	00
C	01
D	02
E	03
F	04

Refer to Service Mode for adjusting the service mode.

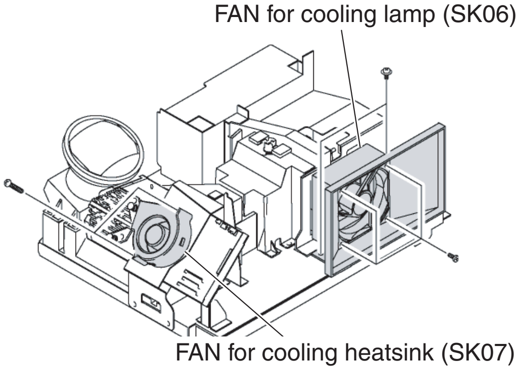
Conversion Table for Decimal and Hexadecimal Numbers

CW delay number	CWDH	CWDL
0000	00	00
0005	00	01
0010	00	02
0015	00	03
0020	00	04
0025	00	05
0030	00	06
0035	00	07
0040	00	08
0045	00	09
0050	00	0A
0055	00	0B
0060	00	0C
0065	00	0D
0070	00	0E
0075	00	0F
0080	00	10
0085	00	11
0090	00	12
0095	00	13
0100	00	14
0105	00	15
0110	00	16
0115	00	17
0120	00	18
0125	00	19
0130	00	1A
0135	00	1B
0140	00	1C
0145	00	1D
0150	00	1E
0155	00	1F
0160	00	20
0165	00	21
0170	00	22
0175	00	23
0180	00	24
0185	00	25
0190	00	26
0195	00	27
0200	00	28
0205	00	29
0210	00	2A
0215	00	2B
0220	00	2C
0225	00	2D
0230	00	2E
0235	00	2F
0240	00	30
0245	00	31
0250	00	32
0255	00	33
0260	00	34
0265	00	35
0270	00	36
0275	00	37
0280	00	38
0285	00	39
0290	00	3A
0295	00	3B
0300	00	3C
0305	00	3D
0310	00	3E
0315	00	3F
0320	00	40
0325	00	41
0330	00	42
0335	00	43
0340	00	44
0345	00	45
0350	00	46
0355	00	47
0360	00	48
0365	00	49
0370	00	4A
0375	00	4B
0380	00	4C
0385	00	4D
0390	00	4E
0395	00	4F
0400	00	50
0405	00	51
0410	00	52
0415	00	53
0420	00	54
0425	00	55
0430	00	56
0435	00	57
0440	00	58
0445	00	59
0450	00	5A
0455	00	5B
0460	00	5C
0465	00	5D
0470	00	5E
0475	00	5F
0480	00	60
0485	00	61
0490	00	62
0495	00	63
0500	00	64
0505	00	65
0510	00	66
0515	00	67
0520	00	68
0525	00	69
0530	00	6A
0535	00	6B
0540	00	6C
0545	00	6D
0550	00	6E
0555	00	6F
0560	00	70
0565	00	71
0570	00	72
0575	00	73
0580	00	74
0585	00	75
0590	00	76
0595	00	77
0600	00	78
0605	00	79
0610	00	7A
0615	00	7B
0620	00	7C
0625	00	7D
0630	00	7E
0635	00	7F
0640	00	80
0645	00	81
0650	00	82
0655	00	83
0660	00	84
0665	00	85
0670	00	86
0675	00	87
0680	00	88
0685	00	89
0690	00	8A
0695	00	8B
0700	00	8C
0705	00	8D
0710	00	8E
0715	00	8F
0720	00	90
0725	00	91
0730	00	92
0735	00	93
0740	00	94
0745	00	95
0750	00	96
0755	00	97
0760	00	98
0765	00	99
0770	00	9A
0775	00	9B
0780	00	9C
0785	00	9D
0790	00	9E
0795	00	9F
0800	00	A0
0805	00	A1
0810	00	A2
0815	00	A3
0820	00	A4
0825	00	A5
0830	00	A6
0835	00	A7
0840	00	A8
0845	00	A9
0850	00	AA
0855	00	AB
0860	00	AC
0865	00	AD
0870	00	AE
0875	00	AF
0880	00	B0
0885	00	B1
0890	00	B2
0895	00	B3
0900	00	B4
0905	00	B5
0910	00	B6
0915	00	B7
0920	00	B8
0925	00	B9
0930	00	BA
0935	00	BB
0940	00	BC
0945	00	BD
0950	00	BE
0955	00	BF
0960	00	C0
0965	00	C1
0970	00	C2
0975	00	C3
0980	00	C4
0985	00	C5
0990	00	C6
0995	00	C7
1000	00	C8
1005	00	C9
1010	00	CA
1015	00	CB
1020	00	CC
1025	00	CD
1030	00	CE
1035	00	CF
1040	00	D0
1045	00	D1
1050	00	D2
1055	00	D3
1060	00	D4
1065	00	D5
1070	00	D6
1075	00	D7
1080	00	D8
1085	00	D9
1090	00	DA
1095	00	DB
1100	00	DC
1105	00	DD
1110	00	DE
1115	00	DF
1120	00	E0
1125	00	E1
1130	00	E2
1135	00	E3
1140	00	E4
1145	00	E5
1150	00	E6
1155	00	E7
1160	00	E8
1165	00	E9
1170	00	EA
1175	00	EB
1180	00	EC
1185	00	ED
1190	00	EE
1195	00	EF
1200	00	F0
1205	00	F1
1210	00	F2
1215	00	F3
1220	00	F4
1225	00	F5
1230	00	F6
1235	00	F7
1240	00	F8
1245	00	F9
1250	00	FA
1255	00	FB
1260	00	FC
1265	00	FD
1270	00	FE
1275	00	FF
1280	01	00
1285	01	01
1290	01	02
1295	01	03
1300	01	04
1305	01	05
1310	01	06
1315	01	07
1320	01	08
1325	01	09
1330	01	0A
1335	01	0B
1340	01	0C
1345	01	0D
1350	01	0E
1355	01	0F
1360	01	10
1365	01	11
1370	01	12
1375	01	13
1380	01	14
1385	01	15
1390	01	16
1395	01	17
1400	01	18
1405	01	19
1410	01	1A
1415	01	1B
1420	01	1C
1425	01	1D
1430	01	1E
1435	01	1F
1440	01	20
1445	01	21
1450	01	22
1455	01	23
1460	01	24
1465	01	25
1470	01	26
1475	01	27
1480	01	28
1485	01	29
1490	01	2A
1495	01	2B
1500	01	2C
1505	01	2D
1510	01	2E
1515	01	2F
1520	01	30
1525	01	31
1530	01	32
1535	01	33
1540	01	34
1545	01	35
1550	01	36
1555	01	37
1560	01	38
1565	01	39
1570	01	3A
1575	01	3B
1580	01	3C
1585	01	3D
1590	01	3E
1595	01	3F
1600	01	40
1605	01	41
1610	01	42
1615	01	43
1620	01	44
1625	01	45
1630	01	46
1635	01	47
1640	01	48
1645	01	49
1650	01	4A
1655	01	4B
1660	01	4C
1665	01	4D
1670	01	4E
1675	01	4F
1680	01	50
1685	01	51
1690	01	52
1695	01	53
1700	01	54
1705	01	55
1710	01	56
1715	01	57
1720	01	58
1725	01	59
1730	01	5A
1735	01	5B
1740	01	5C
1745	01	5D
1750	01	5E
1755	01	5F
1760	01	60
1765	01	61
1770	01	62
1775	01	63
1780	01	64
1785	01	65
1790	01	66
1795	01	67

PARTS REPLACEMENT IN LIGHT ENGINE

1. FAN Replacement (SK06 and SK07)

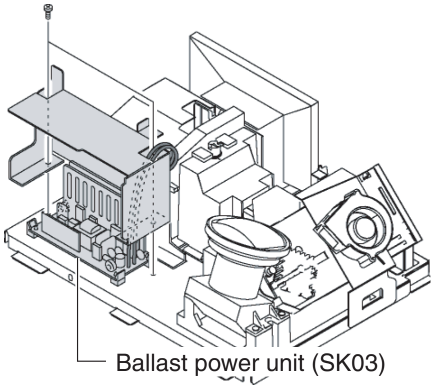
1-1. For replacing FAN for cooling heatsink (SK07), remove 2 screws.
For replacing FAN for cooling lamp (SK06), detach FAN hood located on LIGHT ENGINE by removing 2 screws and then remove 4 screws.



2. Replacement of Ballast Power Unit (SK03)

2-1. Remove lamp unit by loosening 2 screws.
(Refer to pages 12 to 14)

2-2. Remove 2 screws holding chassis of ballast power unit (SK03) to detach the chassis.
Note:
Treat with enough care so as not to damage the cable for lamp power.

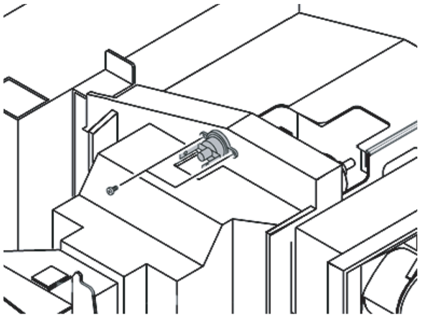


2-3. Detach the ballast power unit by removing 4 substrate stoppers that hold the ballast power unit.

> CAUTION
> Precautions When Exchanging Ballast Power Units
> When you install a new ballast power unit, install it while pushing the four corners of the board directly. Installation while pressing the heatsink may cause the pattern crack.

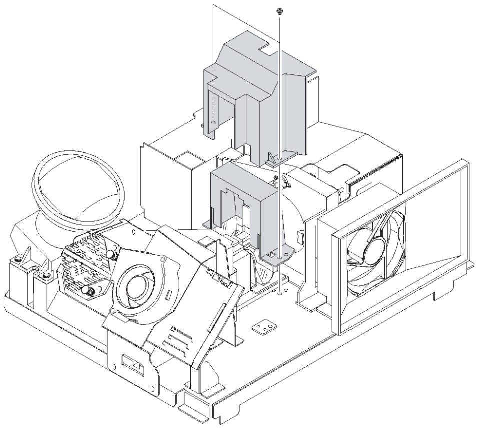
3. Replacement of Temperature Breaker (SK08)

3-1. Remove 2 screws for replacing the temperature breaker (SK08) for lamp.

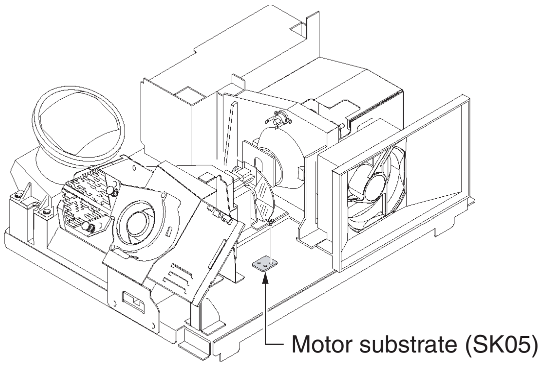


4. Replacement of Sensor Unit (Photo Detector Substrate) (SK04) & Motor Unit (Motor Substrate) (SK05)

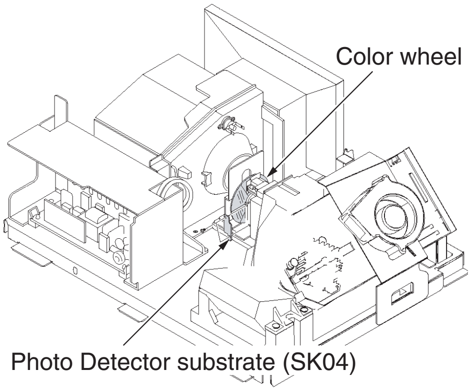
4-1. Remove 2 screws fixing a color wheel cover and UV filter box.



4-2. Remove one screw for Motor Substrate (SK05).



4-3. Remove 2 screws holding Photo Detector substrate (SK04).



> Caution
> - When removing screws, do not damage the color wheel with drivers, etc. Even a small impact may damage the color wheel.
> - Make sure not to touch the color wheel.
> - Don’t remove other screws by any means.

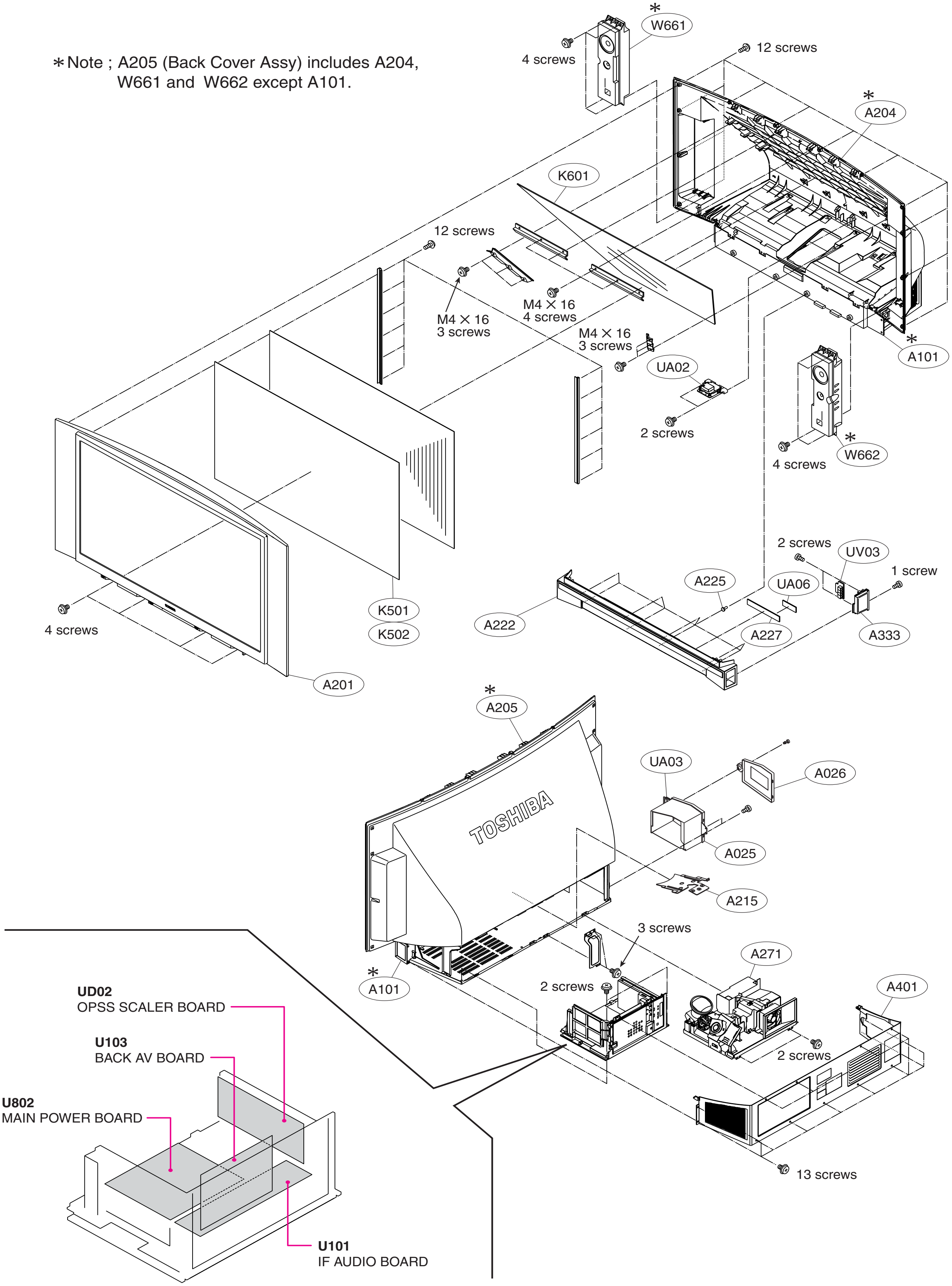
5. LIGHT ENGINE UNIT

Location No.		Parts No.	Description
⚠ A271	#1	23405378	OPTICAL ENGINE, PJ-TB25-46 (Incl. SK02-SK08)
⚠	#2	23405372	OPTICAL ENGINE, PJ-TB25-52 (Incl. SK02-SK08)
⚠	#3	23405379	OPTICAL ENGINE, PJ-TB25-62 (Incl. SK02-SK08)
SK01	#1	23405384	OPTICAL ENGINE, PJ-TB25-46S (Incl. SK03-SK08)
	#2	23405385	OPTICAL ENGINE, PJ-TB25-52S (Incl. SK03-SK08)
	#3	23405386	OPTICAL ENGINE, PJ-TB25-62S (Incl. SK03-SK08)
SK02		23587201	SERVICE KIT, SHP66 LAMP UNIT
SK03		23122468	POWER UNIT, RPB-4434ZA
SK04		23762354	PC BOARD ASSY, SENSOR UNIT PD1823
SK05		23762355	PC BOARD ASSY, MOTOR UNIT PD1824
SK06		23125920	FAN, D09A-12PS6 01B(K)
SK07		23125919	FAN, D07F-12SS18 01B(EX)
SK08		23144199	BREAKER, US-603UXTLQE-H

#1:[46HM84] #2:[52HM84] #3:[62HM84]

EXPLODED VIEW

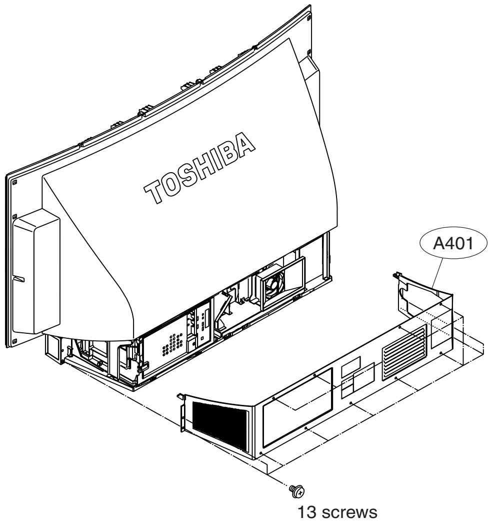
∗Note ; A205 (Back Cover Assy) includes A204, W661 and W662 except A101.



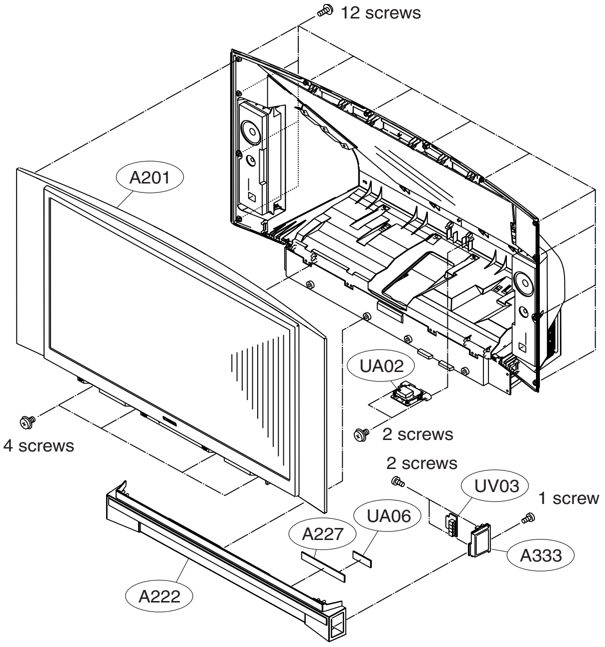
∗ W661
4 screws
12 screws
∗ A204
K601
12 screws
M4 × 16
3 screws
M4 × 16
4 screws
M4 × 16
3 screws
UA02
∗ A101
2 screws
4 screws
∗ W662
2 screws
UV03
1 screw
A225
UA06
4 screws
K501
K502
A222
A227
A333
A201
∗ A205
UA03
A026
TOSHIBA
A025
A215
3 screws
A271
∗ A101
2 screws
A401
2 screws
13 screws
UD02
OPSS SCALER BOARD
U103
BACK AV BOARD
U802
MAIN POWER BOARD
U101
IF AUDIO BOARD

MECHANICAL DISASSEMBLY

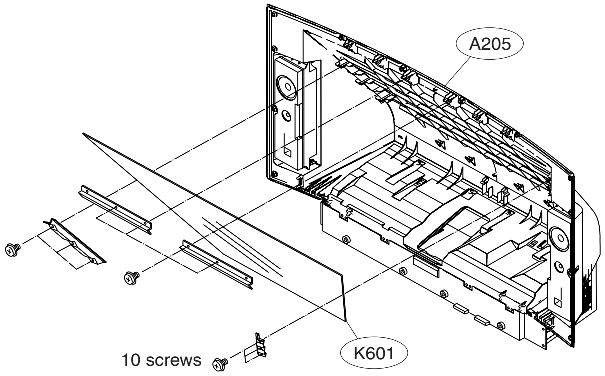
1 Rear Cover Removal


TOSHIBA
A401
13 screws

2 Touchpad & Bezel Ass'y Removal

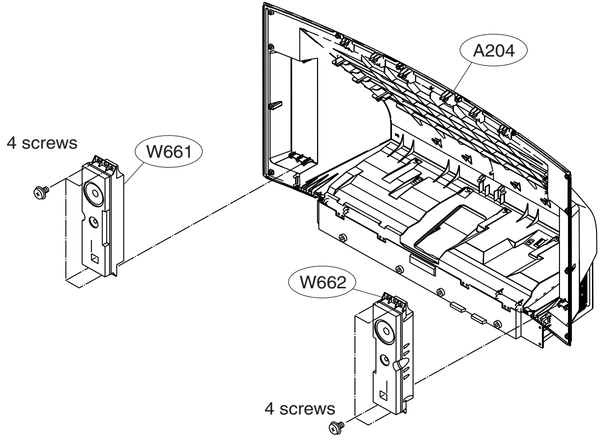

12 screws
A201
UA02
4 screws
2 screws
2 screws
UV03
1 screw
UA06
A227
A333
A222

3 Mirror Removal

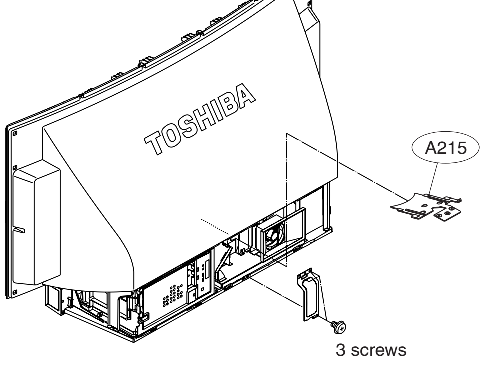

A205
10 screws
K601

Note ; A205 includes A204, W661 and W662.

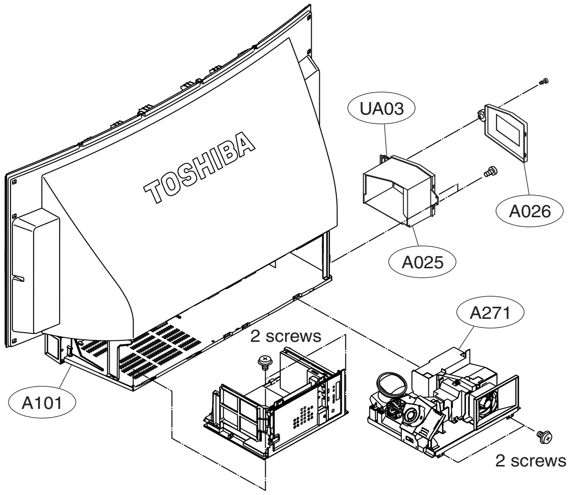
4 Speaker Removal


A204
4 screws
W661
W662
4 screws

5 Bracket Removal


TOSHIBA
A215
3 screws

6 Optical Engine Removal


UA03
TOSHIBA
A026
A025
A271
2 screws
A101
2 screws

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ＊ mark is no longer available after the end of the production.*

Model : 46HM84/52HM84/62HM84

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
#1:[46HM84]		
#2:[52HM84]		
#3:[62HM84]		
CAPACITORS		
C101	24797339	ELECTROLYTIO CE04G, 50V 3.3UF M
C102	24665221	ELECTROLYTIC CE04Q, 10V 220UF M 3A
C105	24100102	CERAMIC CHIP, 50V F 1000PF Z
C106	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C107	24666221	ELECTROLYTIC 04Q, 16V 220UF M 3A
C108	24665221	ELECTROLYTIC CE04Q, 10V 220UF M 3A
C109	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C110	24794101	ELECTROLYTIC, 16V 100UF M
C601	24109122	CERAMIC CHIP, 50V B 1200PF K
C602	24109122	CERAMIC CHIP, 50V B 1200PF K
C603	24073084	ELECTROLYTIC, 50V 4.7UF M 3A
C604	24073084	ELECTROLYTIC, 50V 4.7UF M 3A
C605	24073086	ELECTROLYTIC, 50V 10UF M 3A
C606	24073086	ELECTROLYTIC, 50V 10UF M 3A
C607	24073053	ELECTROLYTIC, 25V 100UF M 3A
C608	24073086	ELECTROLYTIC, 50V 10UF M 3A
C612	24073054	ELECTROLYTIC CE04P 25V 220UF M 3A
C621	24109822	CERAMIC CHIP, 50V B 8200PF K
C622	24109822	CERAMIC CHIP, 50V B 8200PF K
C661	24073084	ELECTROLYTIC, 50V 4.7UF M 3A
C662	24073086	ELECTROLYTIC, 50V 10UF M 3A
C663	24073086	ELECTROLYTIC, 50V 10UF M 3A
C665	24109103	CERAMIC CHIP, 50V B 0.01UF K
C666	24073084	ELECTROLYTIC, 50V 4.7UF M 3A
C667	24794100	ELECTROLYTIC, 16V 10UF M
C668 #1	24105560	CERAMIC CHIP, 50V CH 56PF J
#2	24436560	CERAMIC DISC, 50V SL 56PFJ
#3	24105560	CERAMIC CHIP, 50V CH 56PF J
C669 #1	24105560	CERAMIC CHIP, 50V CH 56PF J
#2	24436560	CERAMIC DISC, 50V SL 56PFJ
#3	24105560	CERAMIC CHIP, 50V CH 56PF J
C680	24073073	ELECTROLYTIC, 35V 2200UF M 3A
C681	24109103	CERAMIC CHIP, 50V B 0.01UF K
C682	24073082	ELECTROLYTIC, 50V 2.2UF M 3A
C683	24073053	ELECTROLYTIC, 25V 100UF M 3A
C684	24795470	ELECTROLYTIC 04G, 25V 47UF M

Location No.	Parts No.	Description
⚠C801	24503004	PLASTIC FILM, AC275V 0.47UF M
⚠C803	24503002	PLASTIC FILM, AC275V 0.22UF M
C805	24092281	CERAMIC DISC, AC250V E 4700PF
C809	24086067	ELECTROLYTIC 692Q 200V 1000UF M 3F
C810	24086067	ELECTROLYTIC 692Q 200V 1000UF M 3F
⚠C811	24092557	CERAMIC DISC, AC250V E 2200PF M
⚠C812	24092557	CERAMIC DISC, AC250V E 2200PF M
⚠C814	24092553	CERAMIC DISC, AC250V B 470PF K
⚠C816	24092555	CERAMIC DISC, AC250V E 1000PF M
C840	24679220	ELECTROLYTIC, 250V 22UF M 3A
C841	24073043	ELECTROLYTIC, 16V 2200UF M 3A
C842	24503041	PLASTIC FILM , 63V 0.1UF J
C843	24092333	CERAMIC DISC, 2KV 100PF K
C845	24073082	ELECTROLYTIC, 50V 2.2UF M 3A
C848	24073039	ELECTROLYTIC, 16V 220UF M 3A
C861	24092342	CERAMIC DISC, 2KV R 560PF K
C862	24503045	PLASTIC FILM, 63V 0.22UF J
C863	24212221	CERAMIC DISC, 50V B 220PF K
C864	24590681	PLASTIC FILM CQ922M 50V 680PF J
C865	24073063	ELECTROLYTIC CE04P 35V 4.7UF M 3A
C866	24820223	PLASTIC FILM, 630V 0.022UF J
C868	24073068	ELECTROLYTIC, 35V 100UF M 3A
C883	24567104	PLASTIC FILM, 50V 0.1UF J
C884	24214331	CERAMIC DISC, 500V B 330PF K
C885	24073191	ELECTROLYTIC CE04P 35V 1500UF M 3A
C886	24214331	CERAMIC DISC, 500V B 330PF K
C887	24676470	ELECTROLYTIC, 100V 47UF M 3A
C888	24214331	CERAMIC DISC, 500V B 330PF K
C889	24073171	ELECTROLYTIC CE04P 25V 820UF M 3A
C890	24214331	CERAMIC DISC, 500V B 330PF K
C891	24073161	ELECTROLYTIC CE04P 16V 3900UF M 3A
C892	24214331	CERAMIC DISC, 500V B 330PF K
C893	24073173	ELECTROLYTIC CE04P 10V 3900UF M 3A
C894	24214331	CERAMIC DISC, 500V B 330PF K
C895	24073075	ELECTROLYTIC CE04P 35V 4700UF M 3A
C898 #1	24503041	PLASTIC FILM , 63V 0.1UF J
#2	24092398	CERAMIC DISC, 25V 0.1UF Z
#3	24503041	PLASTIC FILM , 63V 0.1UF J
C8200	24073067	ELECTROLYTIC CE04P 35V 47UF M 3A
C8201	24503047	PLASTIC FILM, 63V 0.33UF J
C8202	24073169	ELECTROLYTIC CE04P 25V 470UF M 3A

Location No.	Parts No.	Description
C8210	24073172	ELECTROLYTIC CE04P 25V 1000UF M 3A
C8211	24503041	PLASTIC FILM , 63V 0.1UF J
C8212	24214221	CERAMIC DISC, 500V B 220PF K
C8213	24503041	PLASTIC FILM , 63V 0.1UF J
C8214	24617006	ELECTROLYTIC 04CH, 25V 820UF M
C8215	24073138	ELECTROLYTIC CE04P 10V 220UF M 3A
C8220	24073068	ELECTROLYTIC, 35V 100UF M 3A
C8221	24073169	ELECTROLYTIC CE04P 25V 470UF M 3A
C8224	24073087	ELECTROLYTIC, 50V 22UF M 3A
C8225	24073141	ELECTROLYTIC CE04P 10V 1000UF M 3A
C8240	24073038	ELECTROLYTIC, 16V 100UF M 3A
C8241	24503047	PLASTIC FILM, 63V 0.33UF J
C8242	24073141	ELECTROLYTIC CE04P 10V 1000UF M 3A
C8250 #1	24073141	ELECTROLYTIC CE04P 10V 1000UF M 3A
#2	24794101	ELECTROLYTIC, 16V 100UF M
#3	24073141	ELECTROLYTIC CE04P 10V 1000UF M 3A
C8251	24567334	PLASTIC FILM, 50V 0.33UF J
C8252 #1	24073141	ELECTROLYTIC CE04P 10V 1000UF M 3A
#2	24073138	ELECTROLYTIC CE04P 10V 220UF M 3A
#3	24073141	ELECTROLYTIC CE04P 10V 1000UF M 3A
C8253	24669339	ELECTROLYTIC, 50V 3.3UF M
C8905	24073002	ELECTROLYTIC CE04P 6.3V 220UF M 3A
C8911	24503047	PLASTIC FILM, 63V 0.33UF J
C8912	24503047	PLASTIC FILM, 63V 0.33UF J
C8921	24073141	ELECTROLYTIC CE04P 10V 1000UF M 3A
C8930	24073067	ELECTROLYTIC CE04P 35V 47UF M 3A
C8931	24503047	PLASTIC FILM, 63V 0.33UF J
C8932	24073152	ELECTROLYTIC CE04P 16V 330UF M 3A
C8933	24073069	ELECTROLYTIC CE04P 35V 220UF M 3A
C8940	24073067	ELECTROLYTIC CE04P 35V 47UF M 3A
C8941	24503047	PLASTIC FILM, 63V 0.33UF J
C8942	24073152	ELECTROLYTIC CE04P 16V 330UF M 3A
C8943	24073069	ELECTROLYTIC CE04P 35V 220UF M 3A
CA81	24109183	CERAMIC CHIP, 50V B 18000PF K
CA82	24109183	CERAMIC CHIP, 50V B 18000PF K
CA83	24109102	CERAMIC CHIP, 50V B 1000PF K
CA84	24109183	CERAMIC CHIP, 50V B 18000PF K
CA85	24109183	CERAMIC CHIP, 50V B 18000PF K
CA86	24109183	CERAMIC CHIP, 50V B 18000PF K
CA87	24109183	CERAMIC CHIP, 50V B 18000PF K
CA88	24109102	CERAMIC CHIP, 50V B 1000PF K
CA89	24109183	CERAMIC CHIP, 50V B 18000PF K
CA90	24109183	CERAMIC CHIP, 50V B 18000PF K
CA91	24092730	CERAMIC CHIP, 16V B 0.1UF K
CA92	24092730	CERAMIC CHIP, 16V B 0.1UF K
CA93	24619040	ELEC. CHIP, 16V 10UF M 3A
CA94	24619040	ELEC. CHIP, 16V 10UF M 3A
CA95	24092730	CERAMIC CHIP, 16V B 0.1UF K
CA96	24092730	CERAMIC CHIP, 16V B 0.1UF K
CA97	24105330	CERAMIC CHIP, 50V CH 33PF J
CA98	24105330	CERAMIC CHIP, 50V CH 33PF J
CB01	24794470	ELECTROLYTIC, 16V 47UF M
CB81	24092730	CERAMIC CHIP, 16V B 0.1UF K
CS01	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS02	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS03	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS04	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS05	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS06	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS07	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS08	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS09	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS10	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS11	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS12	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS13	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS14	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS15	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS16	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
CS25	24109103	CERAMIC CHIP, 50V B 0.01UF K
CS26	24794470	ELECTROLYTIC, 16V 47UF M
CS27	24794220	ELECTROLYTIC, 16V 22UF M
CS28	24794100	ELECTROLYTIC, 16V 10UF M
CS29	24794100	ELECTROLYTIC, 16V 10UF M
CS30	24794100	ELECTROLYTIC, 16V 10UF M
CV01	24092621	CERAMIC CHIP, 10V B 1UF K
CV02	24092621	CERAMIC CHIP, 10V B 1UF K
CV03	24092621	CERAMIC CHIP, 10V B 1UF K
CV04	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV05	24092621	CERAMIC CHIP, 10V B 1UF K
CV06	24092621	CERAMIC CHIP, 10V B 1UF K
CV10	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV11	24092621	CERAMIC CHIP, 10V B 1UF K
CV13	24100104	CERAMIC CHIP, 25V F 0.1UF Z @U103
	24794100	ELECTROLYTIC, 16V 10UF M @UV03
CV14	24092621	CERAMIC CHIP, 10V B 1UF K @U103
	24232103	CERAMIC DISC, 50V F 0.01UF Z @UV03
CV15	24100104	CERAMIC CHIP, 25V F 0.1UF Z @U103
	24232103	CERAMIC DISC, 50V F 0.01UF Z @UV03
CV27	24762471	ELECTROLYTIC, 04G 10V 470UF M
CV29	24763101	ELECTROLYTIC, 16V 100UF M
CV30	24092730	CERAMIC CHIP, 16V B 0.1UF K
CV38	24109102	CERAMIC CHIP, 50V B 1000PF K
CV39	24109102	CERAMIC CHIP, 50V B 1000PF K
CV47	24092621	CERAMIC CHIP, 10V B 1UF K
CV70	24794101	ELECTROLYTIC, 16V 100UF M
CV71	24092621	CERAMIC CHIP, 10V B 1UF K
CV72	24794220	ELECTROLYTIC, 16V 22UF M
CV245	24092621	CERAMIC CHIP, 10V B 1UF K
CV246	24092621	CERAMIC CHIP, 10V B 1UF K
CV247	24092621	CERAMIC CHIP, 10V B 1UF K
CV249	24092621	CERAMIC CHIP, 10V B 1UF K
CV250	24092621	CERAMIC CHIP, 10V B 1UF K
CV251	24092621	CERAMIC CHIP, 10V B 1UF K
CV253	24092621	CERAMIC CHIP, 10V B 1UF K
CV254	24092621	CERAMIC CHIP, 10V B 1UF K
CV255	24092621	CERAMIC CHIP, 10V B 1UF K
CY101	24092441	CERAMIC CHIP, 16V F 1UF Z
CY102	24665221	ELECTROLYTIC CE04Q, 10V 220UF M 3A @U101
	24794101	ELECTROLYTIC, 16V 100UF M @U103
CY103	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CY104	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY105	24109103	CERAMIC CHIP, 50V B 0.01UF K @U101
	24100102	CERAMIC CHIP, 50V F 1000PF Z @U103
CY106	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY107	24794100	ELECTROLYTIC, 16V 10UF M
CY108	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CY109	24105101	CERAMIC CHIP, 50V CH 100PF J
CY111	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY112	24105181	CERAMIC CHIP, 50V CH 180PF J
CY113	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY114	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY115	24105390	CERAMIC CHIP, 50V CH 39PF J
CY116	24105470	CERAMIC CHIP, 50V CH 47PF J
CY117	24105180	CERAMIC CHIP, 50V CH 18PF J
CY160	24815393	CERAMIC CHIP, 50V B 39000PF K
CY501	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY502	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY504	24109222	CERAMIC CHIP, 50V B 2200PF K
CY505	24105120	CERAMIC CHIP, 50V CH 12PF J
CY506	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY508	24092730	CERAMIC CHIP, 16V B 0.1UF K

Location No.	Parts No.	Description
CY512	24092463	CERAMIC CHIP, 16V B 0.22UF K
CY513	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY514	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY515	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY516	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY517	24092731	CERAMIC CHIP, 16V B 1UF K
CY524	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY525	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY526	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY538	24761102	ELECTROLYTIC CE04G, 6.3V 1000UF M
CY539	24794471	ELECTROLYTIC, 16V 470UF M
CY540	24794471	ELECTROLYTIC, 16V 470UF M
CY541	24761102	ELECTROLYTIC CE04G, 6.3V 1000UF M
CY582	24105101	CERAMIC CHIP, 50V CH 100PF J

RESISTORS

Location No.	Parts No.	Description
R010	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R150	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R151	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R152	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R173	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R174	24011273	CHIP, 1/20W 27K OHM J
R264	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R265	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R266	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R286	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R287	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R288	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R347	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R348	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R601	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R602	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R603	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
R604	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
R609	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
R610	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R611	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R612	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R613	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R614	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R615	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R616	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R621	24011391	CHIP, 1/20W 390 OHM J
R622	24011391	CHIP, 1/20W 390 OHM J
R626	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R627	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R661	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R662	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R663	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R665	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R666	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R667	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R668	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R671	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R672	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R673	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R674	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R676	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R677	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R681	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R682	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R683	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R684	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R687	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R688	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R693	24000445	CHIP JUMPER, 1608TYPE
R697	24553561	OXIDE METAL FILM, 1W 560 OHM J
R698	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R699	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R810	24568479	CERAMIC COVERED, 7W 4.7 OHM J
R811	24007061	CERAMIC COVERED, 2W 1.8 OHM K
R840	24552562	OXIDE METAL FILM, 1/2W 5.6K OHM J
R841	24366102	CARBON FILM, 1/6W 1K OHM J
R842	24376563	CARB0N FILM, 1/2W 56K OHM J
R843	24376563	CARB0N FILM, 1/2W 56K OHM J
R844	24366103	CARBON FILM, 1/6W 10K OHM J
R845	24366102	CARBON FILM, 1/6W 1K OHM J
R846	24366471	CARBON FILM, 1/6W 470 OHM J
R847	24366473	CARBON FILM, 1/6W 47K OHM J
R848	24366102	CARBON FILM, 1/6W 1K OHM J
R849	24552470	OXIDE METAL FILM, 1/2W 47 OHM J
R850	24366103	CARBON FILM, 1/6W 10K OHM J
R860	24382101	OXIDE METAL FILM, 1W 100 OHM J
R861	24383333	OXIDE METAL FILM, 2W 33K OHM J
R862	24019463	METAL PLATE RK99 2W R22 J
R863	24019461	METAL PLATE, 2W 0.15 OHM J
R864	24321828	METAL FILM, 1/2W 0.82 OHM J
R865	24381221	OXIDE METAL FILM, 1/2W 220 OHM J
R866	24366681	CARBON FILM, 1/6W 680 OHM J
R867	24366152	CARBON FILM, 1/6W 1.5K OHM J
R868	24555473	METAL OXIDE FILM B 3W 47K J
R869	24366152	CARBON FILM, 1/6W 1.5K OHM J
R870	24366154	CARBON FILM, 1/6W 150K OHM J
R881	24366222	CARBON FILM, 1/6W 2.2K OHM J
R882	24366471	CARBON FILM, 1/6W 470 OHM J
R885	24366102	CARBON FILM, 1/6W 1K OHM J
R886	24000525	METAL FILM, 1/4W 4.7K OHM F
R887	24367683	CARBON FILM, 1/6W 68K OHM G
R888	24000525	METAL FILM, 1/4W 4.7K OHM F
R889	24383222	OXIDE METAL FILM, 2W 2.2K OHM J
R891	24555331	OXIDE METAL FILM, 3W 330 OHM J
R892	24555331	OXIDE METAL FILM, 3W 330 OHM J
⚠ R899	24005014	METAL FILM, 1W 8.2M OHM J
R8200	24367390	CARBON FILM 1/6W 390 G
R8210	24000147	METAL FILM, 1/4W 470 OHM F
R8211	24000219	METAL FILM 1/4W 10 F
R8220	24367390	CARBON FILM 1/6W 390 G
R8222	24367820	RESISTER, CARBON FILM, 1/6W 82 OHM G
R8240	24000366	METAL FILM, 1/4W 2.2K OHM F
R8241	24000360	METAL FILM, 1/4W 1.2K OHM F
R8242 #1	24367101	CARBON FILM, 1/6W 100 OHM G
#2	24367820	CARBON FILM, 1/6W 82 OHM G
#3	24367101	CARBON FILM, 1/6W 100 OHM G
R8250	24000145	METAL FILM, 1/4W 330 OHM F
R8251	24000145	METAL FILM, 1/4W 330 OHM F
R8252	24367392	CARBON FILM, 1/6W 3.9K OHM G
R8902	24366333	CARBON FILM, 1/6W 33K OHM J
R8903	24366333	CARBON FILM, 1/6W 33K OHM J
R8904	24366472	CARBON FILM, 1/6W 4.7K OHM J
R8905	24366681	CARBON FILM, 1/6W 680 OHM J
R8908	24366104	CARBON FILM, 1/6W 100K OHM J
R8910	24366472	CARBON FILM, 1/6W 4.7K OHM J
R8911	24366103	CARBON FILM, 1/6W 10K OHM J
R8912	24366223	CARBON FILM, 1/6W 22K OHM J
R8913	24366334	CARBON FILM, 1/6W 330K OHM J
R8914	24366223	CARBON FILM, 1/6W 22K OHM J
R8915	24366102	CARBON FILM, 1/6W 1K OHM J
R8931	24367123	CARBON FILM, 1/6W 12K OHM G
R8932	24367152	CARBON FILM, 1/6W 1.5K OHM G
R8934	24367472	CARBON FILM, 1/6W 4.7K OHM G
R8941	24367123	CARBON FILM, 1/6W 12K OHM G
R8942	24367152	CARBON FILM, 1/6W 1.5K OHM G

Location No.	Parts No.	Description
R8944	24367472	CARBON FILM, 1/6W 4.7K OHM G
R8950	24366103	CARBON FILM, 1/6W 10K OHM J
R8951	24366103	CARBON FILM, 1/6W 10K OHM J
RA71	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
RA72	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RA73	24011273	CHIP, 1/20W 27K OHM J
RA75	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
RA76	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RA77	24011114	CHIP, METAL FILM, 1/20W 110K OHM J
RA78	24000445	CHIP JUMPER, 1608TYPE
RA79	24000445	CHIP JUMPER, 1608TYPE
RA81	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA82	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA84	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA85	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA86	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA87	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA89	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA90	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA91	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA92	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA93	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA94	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RA95	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RB15	24366471	CARBON FILM, 1/6W 470 OHM J
RB19	24366470	CARBON FILM, 1/6W 47 OHM J
RB81	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB82	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RB83	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB84	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB87	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB88	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB89	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB90	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB92	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB93	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS01	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS02	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS05	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS06	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS07	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS09	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS11	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS12	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS13	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS14	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS15	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS16	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS21	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS22	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS23	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS24	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS27	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS28	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS29	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RS30	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RS31	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RS32	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS33	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS34	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RS35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS36	24011102	CHIP, METAL FILM, 1/20W 1K OHM J

Location No.	Parts No.	Description
RS37	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS38	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RV001	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV002	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV003	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV004	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV005	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV006	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV007	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV008	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV009	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV01	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV06	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV07	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV08	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV11	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV12	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV14	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV15	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV19	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV20	24366750	CARBON FILM, 1/6W 75 OHM J
RV21	24366750	CARBON FILM, 1/6W 75 OHM J @UV03
	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J @U103
RV22	24366750	CARBON FILM, 1/6W 75 OHM J @UV03
	24011101	CHIP, METAL FILM, 1/20W 100 OHM J @U103
RV23	24366101	CARBON FILM, 1/6W 100 OHM J @UV03
	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J @U103
RV24	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV32	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV33	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV34	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV35	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV36	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV38	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV40	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV41	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV42	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV43	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV61	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV85	24366471	CARBON FILM, 1/6W 470 OHM J
RV86	24366471	CARBON FILM, 1/6W 470 OHM J
RV89	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
RV147	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV148	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV323	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV324	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV325	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV330	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV331	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV332	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV333	24011181	CHIP, METAL FILM, 1/20W 180 OHM J
RV334	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV335	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RV346	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY101	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY102	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RY103	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY104	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY105	24011821	CHIP, 1/20W 820 OHM J
RY106	24000445	CHIP JUMPER, 1608TYPE
RY107	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J

Location No.	Parts No.	Description
RY109	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RY110	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY160	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RY161	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY501	24011303	CHIP, METAL FILM, 1/20W 30K OHM J
RY502	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY504	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY505	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RY507	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY508	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY509	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RY510	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY511	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY512	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY513	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY516	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RY517	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RY518	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RY519	24000445	CHIP JUMPER, 1608TYPE
RY520	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY521	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY523	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY524	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY525	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY526	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY527	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY528	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY529	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY530	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY531	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY532	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY533	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY534	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY535	24011330	CHIP, 1/20W 33 OHM J
RY536	24011330	CHIP, 1/20W 33 OHM J
RY541	24011392	CHIP, 1/20W 3.9K OHM J
RY542	24011392	CHIP, 1/20W 3.9K OHM J
RY543	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY545	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY548	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY550	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RY551	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RY552	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY560	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RY561	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RY573	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY575	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY576	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RY578	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RY579	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY580	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY582	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RY583	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY584	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY585	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY586	24011330	CHIP, 1/20W 33 OHM J
RY587	24011330	CHIP, 1/20W 33 OHM J
RY588	24011330	CHIP, 1/20W 33 OHM J
RY589	24000445	CHIP JUMPER, 1608TYPE
RY590	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY591	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY592	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY593	24011330	CHIP, 1/20W 33 OHM J
RY594	24011330	CHIP, 1/20W 33 OHM J
RY595	24011330	CHIP, 1/20W 33 OHM J
RY596	24000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
COIL & TRANSFORMERS		
L101	23289845	COIL, PEAKING, TRF4680AT
L103	23289844	COIL, PEAKING, TRF4470AT
L840	23280019	COIL, PEAKING, TRF4330AZ
L841	23103145	FERRITE CHOKE, TEM2011AA
L861	23103145	FERRITE CHOKE, TEM2011AA
L862	23103775	COIL, FERRITE CHOKE, TEM2014
L881	23103145	FERRITE CHOKE, TEM2011AA
L882	23103145	FERRITE CHOKE, TEM2011AA
L883	23103145	FERRITE CHOKE, TEM2011AA
L884	23103145	FERRITE CHOKE, TEM2011AA
L885	23103145	FERRITE CHOKE, TEM2011AA
L886	23103145	FERRITE CHOKE, TEM2011AA
L888	23248321	COIL, CHOKE 15X23H 22MMH 4.2A TLN3462AH
L890	23248292	COIL, CHOKE, TLN3499GH
L891	23248292	COIL, CHOKE, TLN3499GH
L892	23248292	COIL, CHOKE, TLN3499GH
L893	23248213	COIL, CHOKE, TLN3481AH
L895	23248247	COIL, CHOKE, TLN3499AH
L896	23280019	COIL, PEAKING, TRF4330AZ
L896A #2	23960136	ADHESIVE, SILICONE, TSE3843-W
L8210	23280019	COIL, PEAKING, TRF4330AZ
L8211	23248358	COIL, CHOKE EI22 100MMHK TLN3540AH
L8213	23248213	COIL, CHOKE, TLN3481AH
L8930	23248292	COIL, CHOKE, TLN3499GH
L8931	23248292	COIL, CHOKE, TLN3499GH
L8940	23248292	COIL, CHOKE, TLN3499GH
L8941	23248292	COIL, CHOKE, TLN3499GH
LV13	23246253	INDUCTOR, CHIP 10MMH K COLTRF4100CN
LV20	23238705	COIL, PEAKING, TRF4560AJ
LY012	23246253	INDUCTOR, CHIP 10MMH K COLTRF4100CN
LY100	23246223	COIL, CHIP INDUCTOR, TRF4330CG
LY101	23248296	COIL, CHOKE @U101
	23103827	INDUCTOR, BEAD, TEM2120M @U103
LY102	23238506	COIL, PEAKING, TRF4229AJ @U101
	23103827	INDUCTOR, BEAD, TEM2120M @U103
LY103	23238506	COIL, PEAKING, TRF4229AJ @U101
	23103230	INDUCTOR, BEAD, TEM2134AD @U103
LY104	23246219	COIL, CHIP INDUCTOR, TRF4150CG
LY105	23246222	COIL, CHIP INDUCTOR, TRF4270CG
LY112	23103230	INDUCTOR, BEAD, TEM2134AD
LY501	23246253	INDUCTOR, CHIP 10MMH K COLTRF4100CN
LY503	23246253	INDUCTOR, CHIP 10MMH K COLTRF4100CN
⚠T801	23211765	COIL, LF LH35V TRF3239AH
⚠T802	23211776	COIL, LINE FILTER 37X44H 6.8MH TRF3197AH
⚠T840	23217431	TRANSFORMER, CONVERTER, TPW3425AH
⚠T862	23217682	TRANSFORMER, CONVERTER TPW3553AS
SEMICONDUCTORS		
Q151	23205005	TRANSISTOR, KTA2014Y
Q152	23205006	TRANSISTOR, KTC4075Y
Q172	23205006	TRANSISTOR, KTC4075Y
Q601	23009603	IC, BTL AUDIO AMP AN7580
Q612	23205005	TRANSISTOR, KTA2014Y
Q613	23205006	TRANSISTOR, KTC4075Y
Q614	23205236	TRANSISTOR, NPN R1=4.7K R2=47K KRC106S (SOT-23)
Q661	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
Q662	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
Q663	23906596	IC, BA4558
Q664	23205246	TRANSISTOR, PNP R1=R2=47K KRA104S (SOT-23)
Q681	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
Q682	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
Q801	23135037	IC, STR-F6268S
Q840	23906133	IC, MIP280
⚠Q841	23000823	IC, PHOTO COUPLER, TLP421F(GR)
⚠Q842	23000823	IC, PHOTO COUPLER, TLP421F(GR)

Location No.	Parts No.	Description
Q845	23314965	TRANSISTOR, KTC3198 Y
Q846	23314965	TRANSISTOR, KTC3198 Y
Q847	23314965	TRANSISTOR, KTC3198 Y
⚠Q862	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q881	23000701	IC, NJM431L
Q8200	23085050	IC, +12V 2% REG. TO220 SI-3120J(LF1101)
Q8210	23000806	IC, SI-8033SS
Q8220	23904163	IC, SI-3090CA
Q8240	23009998	IC, ADJ REG. VO=1.5V-12.0V BA00JC5WT-V5
Q8250	23000469	IC, PQ5EV3
Q8251	70200563	IC, RESET VS=2.9V PST9129 PST9129
Q8901	23314965	TRANSISTOR, KTC3198 Y
Q8902	23314965	TRANSISTOR, KTC3198 Y
Q8904	23314962	TRANSISTOR, KTA1266 Y
Q8911	23314965	TRANSISTOR, KTC3198 Y
Q8912	23314965	TRANSISTOR, KTC3198 Y
Q8930	23009998	IC, ADJ REG. VO=1.5V-12.0V BA00JC5WT-V5
Q8940	23009998	IC, ADJ REG. VO=1.5V-12.0V BA00JC5WT-V5
Q8950	23119747	IC, OPE AMP, TA75358P
QA91	23900992	SENSOR, TOUCH QT2C01-AS QT2C01-AS
QA92	23900992	SENSOR, TOUCH QT2C01-AS QT2C01-AS
QA93	23000283	IC, R1121N
QB81	23314204	TRANSISTOR, 2SC2412K,Q
QB83	70200849	IC, DUAL COMPARATOR BA10393F
QB84	23314204	TRANSISTOR, 2SC2412K,Q
QS01	23009916	IC, A S/W SSOP-36A MM1631AJBE
QS02	23314993	TRANSISTOR, 2SC4081 Q
QS03	23314993	TRANSISTOR, 2SC4081 Q
QS04	23314993	TRANSISTOR, 2SC4081 Q
QS05	23205246	TRANSISTOR, PNP R1=R2=47K KRA104S (SOT-23)
QS06	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
QS07	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
QV004	23314993	TRANSISTOR, 2SC4081 Q
QV005	23314993	TRANSISTOR, 2SC4081 Q
QV006	23314993	TRANSISTOR, 2SC4081 Q
QV007	23314993	TRANSISTOR, 2SC4081 Q
QV008	23314993	TRANSISTOR, 2SC4081 Q
QV009	23314993	TRANSISTOR, 2SC4081 Q
QV01	23009940	IC, VIDEO S/W MM1630AQ
QV48	23114528	TRANSISTOR, 2SC1740S
QV91	23314994	TRANSISTOR, 2SA1576A106
QY100	23906515	IC, TC90A45F
QY101	23314993	TRANSISTOR, 2SC4081 Q
QY102	23314993	TRANSISTOR, 2SC4081 Q
QY103	23314994	TRANSISTOR, 2SA1576A106
QY160	23205006	TRANSISTOR, KTC4075Y
QY501	23009929	IC, VCD NTSC SOP30 TA1383FG(DRY,EL)
QY502	23205014	TRANSISTOR, 2SC4667-O
QY503	23314994	TRANSISTOR, 2SA1576A106
QY504	23314994	TRANSISTOR, 2SA1576A106
QY506	23314993	TRANSISTOR, 2SC4081 Q
QY507	23314993	TRANSISTOR, 2SC4081 Q
QY508	23314993	TRANSISTOR, 2SC4081 Q
QY509	23314993	TRANSISTOR, 2SC4081 Q
QY511	23314994	TRANSISTOR, 2SA1576A106
QY512	23314994	TRANSISTOR, 2SA1576A106
QY513	23314994	TRANSISTOR, 2SA1576A106
QY514	23314994	TRANSISTOR, 2SA1576A106
QY515	23314994	TRANSISTOR, 2SA1576A106
QY516	23314994	TRANSISTOR, 2SA1576A106
QY518	23314993	TRANSISTOR, 2SC4081 Q
QY522	23314993	TRANSISTOR, 2SC4081 Q
D601	23316231	DIODE, 1SS355
D602	23316231	DIODE, 1SS355
D603	23316231	DIODE, 1SS355
D604	23316231	DIODE, 1SS355

Location No.	Parts No.	Description
D605	23316231	DIODE, 1SS355
D606	23316231	DIODE, 1SS355
D607	23316231	DIODE, 1SS355
D608	23316231	DIODE, 1SS355
D609	23316231	DIODE, 1SS355
D611	23316231	DIODE, 1SS355
D612	23316231	DIODE, 1SS355
D613	23316231	DIODE, 1SS355
D614	23316231	DIODE, 1SS355
D615	23316231	DIODE, 1SS355
D616	23316231	DIODE, 1SS355
D617	23316231	DIODE, 1SS355
D628	23316597	DIODE, ZENER, MA8120-M
D801	23316393	DIODE, VRM=600V IO=6A SIP D5SB60, 4009 F05
D840	23357207	DIODE, LN1WBA60
D841	23316673	DIODE, ZENER, MTZJ5.6C
D842	23316665	DIODE, ZENER, MTZJ4.7A
D843	23357366	DIODE, FR105-B5
D844	23316673	DIODE, ZENER, MTZJ5.6C
D845	23118859	DIODE, 1SS133
D846	23118633	DIODE, ZENER, RD3.0ES B2
D847	23118633	DIODE, ZENER, RD3.0ES B2
D848	23118859	DIODE, 1SS133
D849	23118859	DIODE, 1SS133
D850	23118513	DI0DE, ZENER, RD11ESA B3
D861	23316672	DIODE, ZENER, MTZJ5.6B
D863	23118859	DIODE, 1SS133
D864	23357366	DIODE, FR105-B5
D865	23118859	DIODE, 1SS133
D866	23316381	DIODE, RU1P
D867	23316754	DIODE, ZENER, MTZJ33B
D883	23316184	DIODE, FML-G12S
D884	23357366	DIODE, FR105-B5
D885	23316714	DIODE, RL2Z
D886	23357042	DIODE, FMX-12S(023-108)
D887 #1	23316768	DIODE, FMB-26L
#2	23357042	DIODE, FMX-12S(023-108)
#3	23316768	DIODE, FMB-26L
D888	23357353	DIODE, FML-G22S
D894	23316677	DIODE, ZENER, MTZJ6.8A
D895	23316677	DIODE, ZENER, MTZJ6.8A
D896	23316677	DIODE, ZENER, MTZJ6.8A
D897	23316677	DIODE, ZENER, MTZJ6.8A
D898	23316677	DIODE, ZENER, MTZJ6.8A
⚠D899	24019485	VARISTOR, TNR10V431K
D8200 #1	23118859	DIODE, 1SS133
#3	23118859	DIODE, 1SS133
D8210	23118213	DIODE, RK44,
D8211	23316666	DIODE, ZENER, MTZJ4.7B
D8902	23118859	DIODE, 1SS133
D8903	23118859	DIODE, 1SS133
D8904	23316673	DIODE, ZENER, MTZJ5.6C
D8905	23316673	DIODE, ZENER, MTZJ5.6C
D8911	23316673	DIODE, ZENER, MTZJ5.6C
D8912	23316673	DIODE, ZENER, MTZJ5.6C
D8913	23316673	DIODE, ZENER, MTZJ5.6C
D8914	23118859	DIODE, 1SS133
D8915	23118859	DIODE, 1SS133
D8922	23118530	DIODE, ZENER, RD5.6ESA B1
D8930	23118859	DIODE, 1SS133
D8931 #1	23118859	DIODE, 1SS133
#3	23118859	DIODE, 1SS133
D8940	23118859	DIODE, 1SS133
D8941 #1	23118859	DIODE, 1SS133
#3	23118859	DIODE, 1SS133
D8950	23118528	DIODE, ZENER, RD5.6ESA B3

Location No.	Parts No.	Description
D8951	23118528	DIODE, ZENER, RD5.6ESA B3
DB03	23358522	DIODE, LED, SIR-56SB3F
DB81	23358584	LED, LAMP RED SML-810UTT86
DB82	23358585	LED, LAMP GREEN SML-810MTT86
DV07	23316577	DIODE, ZENER, MA8068-M
DV14	23316577	DIODE, ZENER, MA8068-M
KB01	23000852	IC, REMOTE PHOTO RECEIVER, PIC-37043TE2

MISCELLANEOUS

Location No.	Parts No.	Description
B112	23059129	PIECE COVER
BB10	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB11	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB20	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB21	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB70	23713309	PLUG , TAC-A46P-B1
BB71	23903159	SOCKET, TAC A46X B1
⚠ F801	23144684	FUSE, CARTRIDGE 5X20 125V 8.0A
F801A	23165433	FUSE HOLDER, 5.2 SOC
⚠ F840	23144704	FUSE, AXIAL 125V 200MA
⚠ F860	23144714	FUSE, AXIAL 125V 4.0A
⚠ F880	23144714	FUSE, AXIAL 125V 4.0A
⚠ F881	23144706	FUSE, AXIAL 125V 500MA
⚠ F882	23144714	FUSE, AXIAL 125V 4.0A
⚠ F883	23144715	FUSE, AXIAL 125V 5.0A
⚠ F884	23144715	FUSE, AXIAL 125V 5.0A
⚠ F899	23144691	FUSE, CARTRIDGE 5X20 250V 2.0A
F899A	23165433	FUSE HOLDER, 5.2 SOC
⚠ F8210	23144709	FUSE, AXIAL 125V 1.5A
G101	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
G102	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
GJ105	24000445	CHIP JUMPER, 1608TYPE
GR103	24000445	CHIP JUMPER, 1608TYPE
H002	23148082	IF MODULE, US BUFFER 6M_TRAP MVUS51A
H003	23124087	ANTENNA SWITCH, RSU135X1, 2I3O BUNPAI US
H003A	23740989	NUT, F-CONNECTOR 2H BS
JR001	24000445	CHIP JUMPER, 1608TYPE
JR002	24000445	CHIP JUMPER, 1608TYPE
JR003	24000445	CHIP JUMPER, 1608TYPE
JR004	24000445	CHIP JUMPER, 1608TYPE
JR005	24000445	CHIP JUMPER, 1608TYPE
JR006	24000445	CHIP JUMPER, 1608TYPE
JR007	24000445	CHIP JUMPER, 1608TYPE
JR008	24000445	CHIP JUMPER, 1608TYPE
JR009	24000445	CHIP JUMPER, 1608TYPE
JR010	24000445	CHIP JUMPER, 1608TYPE
JR011	24000445	CHIP JUMPER, 1608TYPE
JR012	24000445	CHIP JUMPER, 1608TYPE
JR013	24000445	CHIP JUMPER, 1608TYPE
JR014	24000445	CHIP JUMPER, 1608TYPE
M811A	23103839	FERRITE CORE, TFE1012
MA01	23389219	CABLE, FFC P1.25-15-98 P1.25-15-98
MV01	23368868	CABLE, LVDS 300MM LVDS
MV04	23389218	CABLE, FFC P1.25-26-140
MX18	23389220	CABLE, FFC P1.25-11-365
MX19	23389221	CABLE, FFC P1.25-17-410
P105	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
⚠ P800	23368013	CONNECTOR, PLUG, 2P 11.88MM W VT-JST
⚠ P801	23372117	POWER CORD, U/C 125V10A HSV 5 CMC-02P 5
P805	23164965	CONNECTOR, PLUG 4P, W-P3504-#02
P811A	23368274	PLUG, 2P 3.96MM VH-JST VH
P891	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
P892	23367073	CONNECTOR, PLUG 13P
P901	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
P902A	23164563	CONNECTOR, PLUG 3P
P903	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P906	23367070	PLUG , NP 2.5MM G JST-EH B10B-EH-F1A
P907	23367072	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B12B-EH-F1A
PA01	23713240	CONNECTOR, 15FE-BT-VK-N JST 15FE-BT-VK-N
PB22	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
PJ60	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
PJ61	23367071	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B11B-EH-F1A
PJ63	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
PJ64	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
PV01	23023132	JACK, PIN 2S6P SMK LAP5030-0111GC
PV02	23365819	JACK, 1S3P @UV03
	23023205	JACK, PIN 10P SMK KARI2 @U103
PV03	23023211	JACK, PIN 7P SMK KARI04
PV04	23713282	CONNECTOR, 26FE-ST-VK-N 26FE-ST-VK-N
PV13	23367069	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A
PV14	23368587	CONNECTOR, PLUG, 8P 2.5MM W EH-JST, S8B-EH
PX18	23713270	CONNECTOR, 11FE-ST-VK-N 11FE-ST-VK-N
PX19	23713110	CONNECTOR, FE-ST-VK-N 17P JST FE-ST-VK-N 17PR
Q893B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q894B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
⚠ S810	70145484	SWITCH, SPVF11
SK01 #1	23405384	OPTICAL ENGINE, PJ-TB25-46S (Incl. SK03-SK08)
#2	23405385	OPTICAL ENGINE, PJ-TB25-52S (Incl. SK03-SK08)
#3	23405386	OPTICAL ENGINE, PJ-TB25-62S (Incl. SK03-SK08)
SK02	23587201	SERVICE KIT, SHP66 LAMP UNIT
SK03	23122468	POWER UNIT, RPB-4434ZA
SK04	23762354	PC BOARD ASSY, SENSOR UNIT PD1823
SK05	23762355	PC BOARD ASSY, MOTOR UNIT PD1824
SK06	23125920	FAN, D09A-12PS6 01B(K)
SK07	23125919	FAN, D07F-12SS18 01B(EX)
SK08	23144199	BREAKER, US-603UXTLQE-H
⚠ SR81	23146574	RELAY, DLS5D1-O(M) 0.15W
⚠ SR82	23146564	RELAY, DC12V, TV5, DG-3
W661	23351244	SPEAKER, SPBOX(L) 8-OHM 20W SPK-1455AM
W662	23351245	SPEAKER, SPBOX(R) 8-OHM 20W SPK-1456AM
XY501	23153961	CRYSTAL, 3.58MHZ
XY502	23153721	CERAMIC RESONATOR, 503KHZ

PC BOARD ASSEMBLIES

Location No.	Parts No.	Description
∗ U101	23762066	PC BOARD ASSY, IF AUDIO ACIN PU PD1775
∗ U103	23762089	PC BOARD ASSY, BACK AV PU PD1774A
∗ U802	23762085	PC BOARD ASSY, MAIN POWER PU PD1773A-1
∗ UA02	23762087	PC BOARD ASSY, REMORT SENSOR PU PD1773A-3
∗ UA03	23762088	PC BOARD ASSY, DOOR SWITCH PU PD1773A-4
∗ UA06	23761341	PC BD ASSY, FRONT KEY 57HL83 PU PD1503
∗ UD02 #1	23148133	SCALER 46HM84, B910PD1870C1
#2	23148131	OPSS SCALER 52HM84, B910PD1870A1
#3	23148132	SCALER 62HM84, B910PD1870B1
∗ UV02	23148055	SCAN CONVERTER MODUL, 03DVI MHDM01
∗ UV03	23762086	PC BOARD ASSY, FRONT AV PU PD1773A-2

TUNER

Location No.	Parts No.	Description
⚠ H001	23321482	TUNER, US181CH IIC PH 5V PANA ELA52LX5
⚠ HY01	23321480	TUNER, TIF US IIC PH 181CH 5V ENG36A18GF

ACCESSORIES

Location No.	Parts No.	Description
A701 #1	23067699	CARTON, CARTON
#2	23067697	CARTON, CARTON
#3	23067698	CARTON, CARTON
A703 #1	23946773	PACKING, TOP PACKING
#2	23946771	PACKING, TOP PACKING
#3	23946772	PACKING, TOP PACKING
A708 #1,#2	23946768	PACKING, BOTTOM PACKING
#3	23946769	PACKING, BOTTOM PACKING
A709 #1	23067696	CARTON, BASE TRAY
#2	23067694	CARTON, BASE TRAY
#3	23067695	CARTON, BASE TRAY
A710 #1	23946776	PACKING, SUPPORT POST

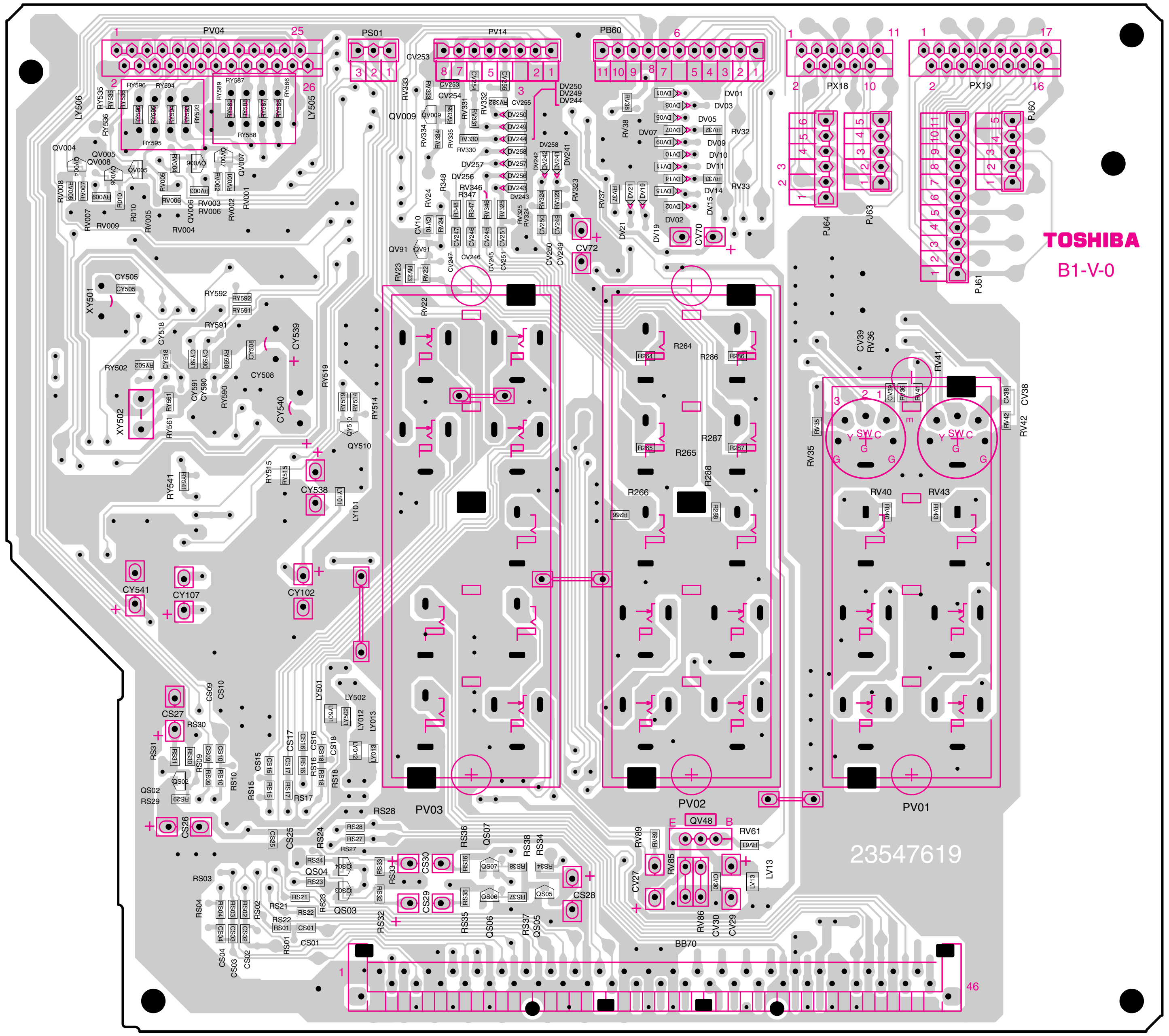
Location No.	Parts No.	Description
#2	23946774	PACKING, SUPPORT POST
#3	23946775	PACKING, SUPPORT POST
⚠ K912	23306497	REMOCON HAND UNIT IR, CTVUSA
⚠ Y101E	23566346	OWNERS MANUAL, ENGLISH
⚠ Y101F	23566347	OWNERS MANUAL, FRENCH
Y102	23589650	SHEET, IMPORTANT NOTES

CABINET PARTS

Location No.	Parts No.	Description
⚠ A025	23532769	COVER, LAMP TUNNEL PURCHASE ASY
⚠ A026	23428292	DOOR, DOOR LAMP PURCHASE ASSY
⚠ A101	23532766	COVER, BASE PURCHASE ASSY
⚠ A201 #1	23532767	COVER, BEZEL PURCHASE ASSY
⚠ #2	23532781	COVER, BEZEL PURCHASE ASSY
⚠ A204 #1	23532764	COVER, BACK COVER
#2	23532684	COVER, BACK COVER
#3	23532763	COVER, BACK COVER
A205 #1	23532783	COVER, BACKCOVER PURCHASE ASSY
⚠ #2	23532782	COVER, BACKCOVER PURCHASE ASSY
⚠ #3	23532784	COVER, BACKCOVER PURCHASE ASSY
⚠ A215	23940083	PIECE, PIECE ENCLOSURE,DLE
A220	23451976	PUSH CATCH, CLICK
A222 #1,#2	23532770	COVER, PEDESTAL PURCHASE ASSY
⚠ #3	23532885	COVER, PEDESTAL ASSY
⚠ A225	23940084	PIECE, STRIKER
A227 #1,#2	23450809	PANEL, PIECE TRIM TOUCH PAD
#3	23450812	PANEL, PIECE TRIM TOUCH PAD
A231 #3	23940100	PIECE, PIECE SIDE RIGHT
A232 #3	23940099	PIECE, PIECE SIDE LEFT
A271 #1	23405378	OPTICAL ENGINE, PJ-TB25-46 (Incl. SK02-SK08)
⚠ #2	23405372	OPTICAL ENGINE, PJ-TB25-52 (Incl. SK02-SK08)
⚠ #3	23405379	OPTICAL ENGINE, PJ-TB25-62 (Incl. SK02-SK08)
⚠ A278	23084267	BRACKET, SPEED CLIP
A305	23717197	SCREW, THUMB SCREW
A306	23717198	SCREW, THUMB SCREW RETAINER
A333	23450837	PANEL, A/V MOUNT PURCHASE ASSY
A401	23532768	COVER, REAR COVER PURCHASE ASY
A421	23532738	COVER, REAR COVER,DLE
A422	23084265	BRACKET, VENT, REAR DLE
A516	23717192	SCREW, SCREW, AV BOARD
A721	23943628	PLYETHLENE COVERING 46GM88T
K501 #1	23311074	SCREEN, 46K4M LENTICULAR SHEET
#2	23311071	SCREEN, 52K4ML LENTICULAR SHEET
#3	23311080	SCREEN, 62K4M LENTICULAR SHEET
K502 #1	23311075	SCREEN, 46K4M FRESNEL SHEET
#2	23311072	SCREEN, 52K4M FRESNEL SHEET
#3	23311081	SCREEN, 62K4MF FRESNEL SHEET
K601 #1	23405382	MIRROR, 46C4M3 1047/503*536*3
#2	23405371	MIRROR, 52C4M3 1197/578*612*3
#3	23405383	MIRROR, 62C4M3 1426/695*725*3

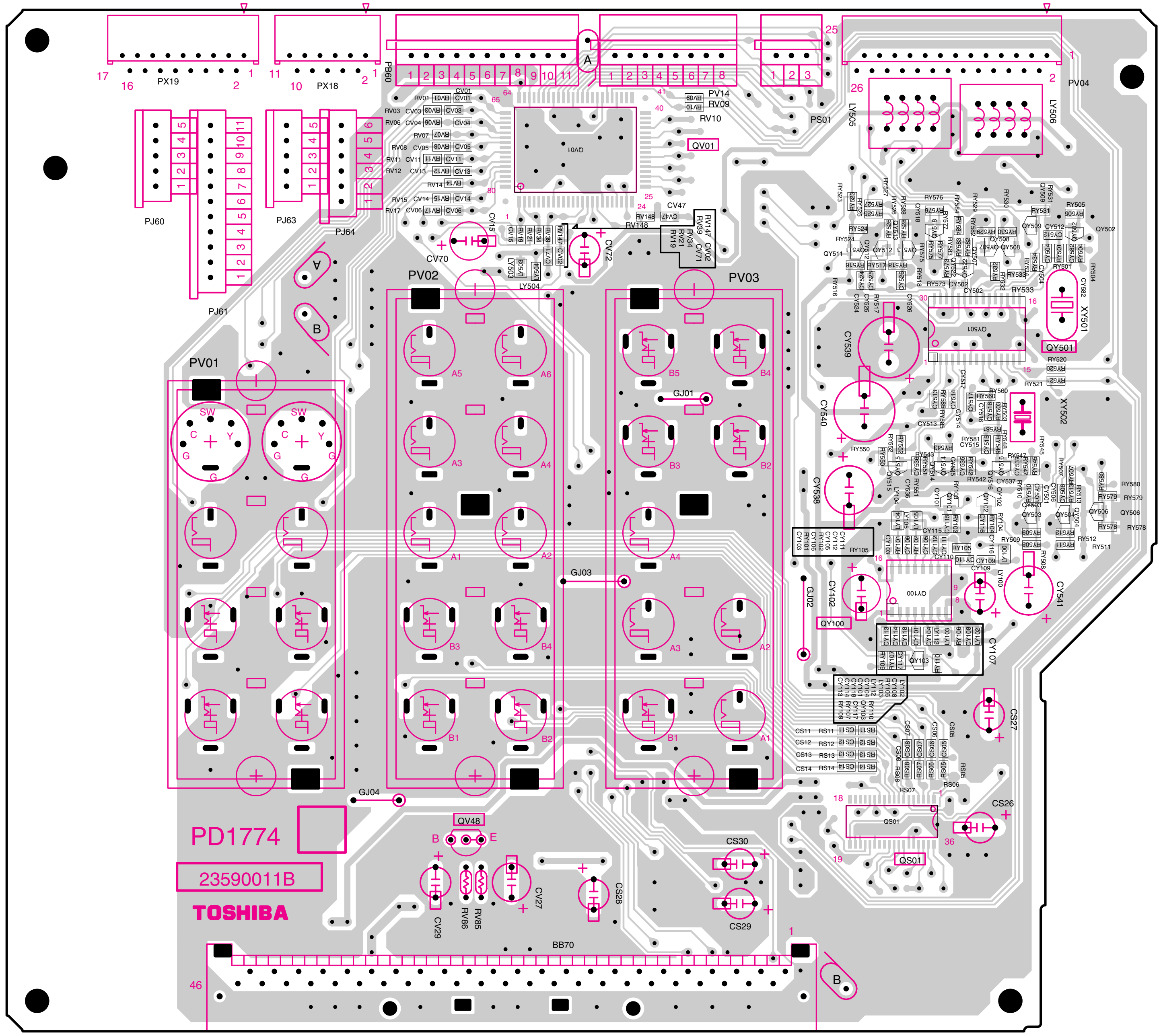
BACK AV BOARD PD1774A (U103)

BOTTOM (FOIL) SIDE


PV04
PS01
PV14
PB60
PX18
PX19
PJ60
PJ61
PJ63
PJ64
TOSHIBA
B1-V-0
PV03
PV02
PV01
BB70
23547619
CY541
CY107
CY102
CS27
CS28
QV48
XY501
XY502
CY505
CY538
CY539
CY540
CV72
RV40
RV43
RV41
CV38
RV42
RV35
R264
R265
R266
R286
R287
R288
SW C
1
25
26
2
46
11
17
16
10

BACK AV BOARD PD1774A (U103)

TOP (COMPONENT) SIDE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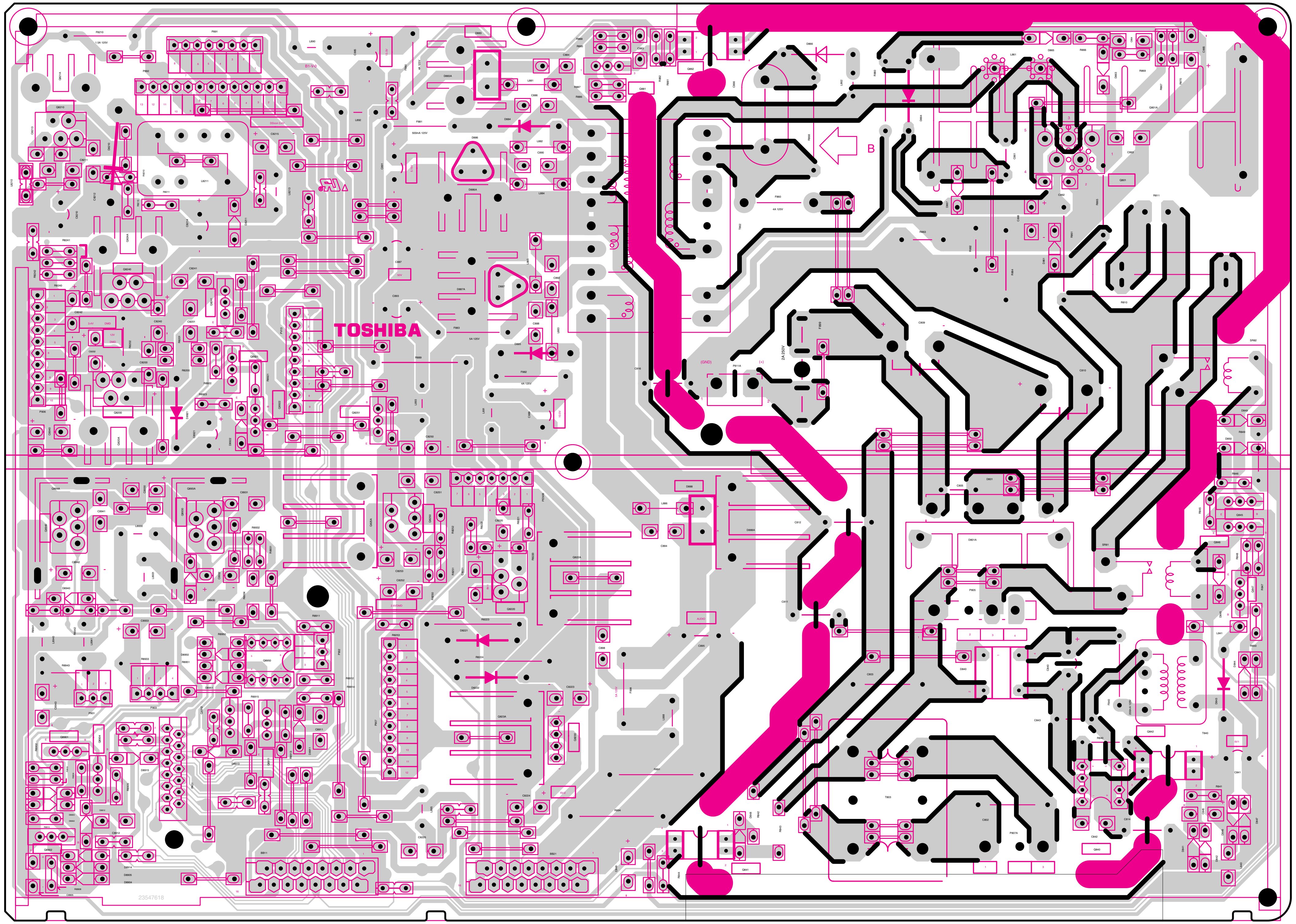
PB60
PS01
PV04
LY505
LY506
PJ60
PJ63
PJ64
PJ61
PV01
PV02
PV03
QV01
CV70
CV72
CV47
GJ01
GJ02
GJ03
GJ04
QV48
CV27
CV29
RV85
RV86
CS28
CS30
CS29
CS26
CS27
QS01
BB70
QY100
QY501
XY501
XY502
CY539
CY540
CY538
CY541
CY102
CY107
A
B
PD1774
23590011B
TOSHIBA

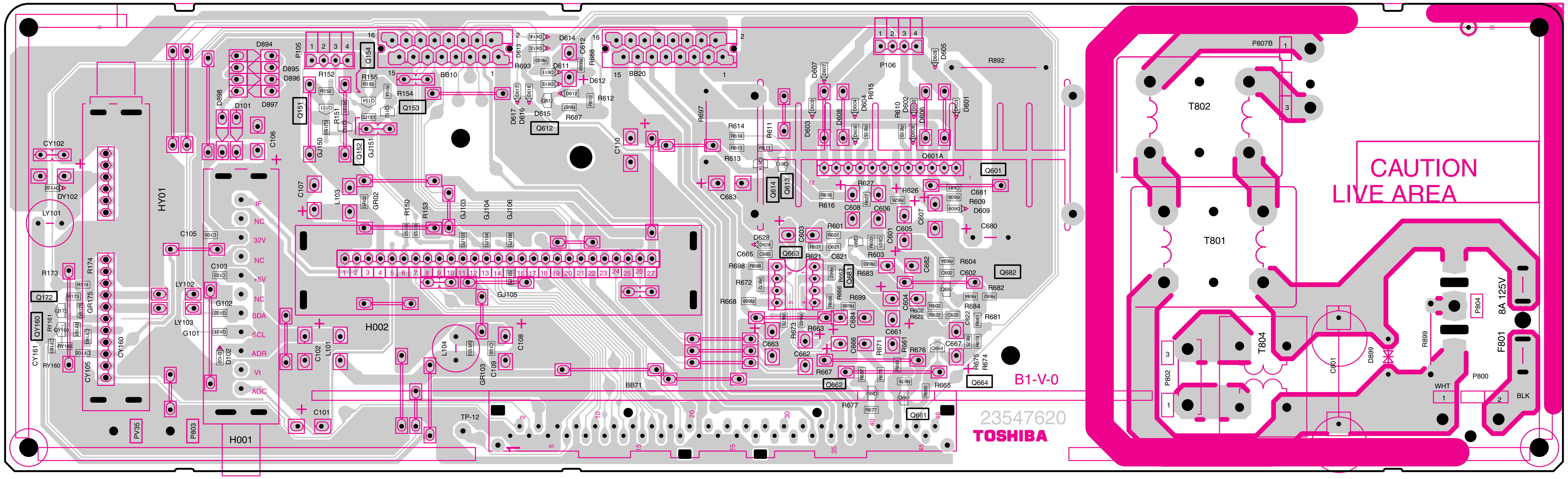
MAIN POWER BOARD PD1773A-1 (U802)

BOTTOM (FOIL) SIDE



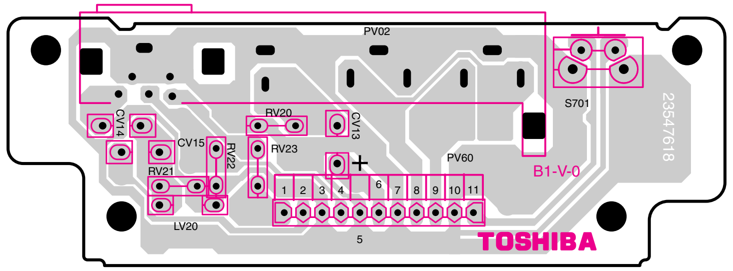
IF AUDIO BOARD PD1775 (U101)

BOTTOM (FOIL) SIDE


CAUTION
LIVE AREA
T802
T801
T804
P807B
8A 125V
F801
P800
WHT
BLK
HY01
H001
H002
TP-12
BB10
BB20
BB71
Q601
Q682
Q664
Q661
B1-V-0
23547620
TOSHIBA

F-AV BOARD PD1773A-2 (UV03)

BOTTOM (FOIL) SIDE


PV02
S701
RV20
RV23
CV15
RV21
PV60
LV20
B1-V-0
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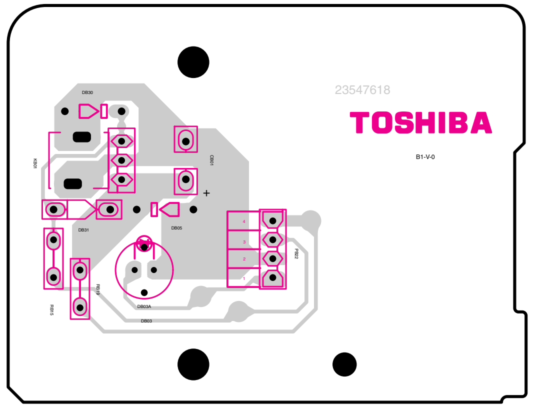
TOSHIBA

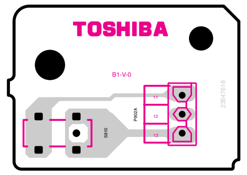
REMOTE SENSOR BOARD PD1773A-3 (UA02)

BOTTOM (FOIL) SIDE


23547618
TOSHIBA
B1-V-0

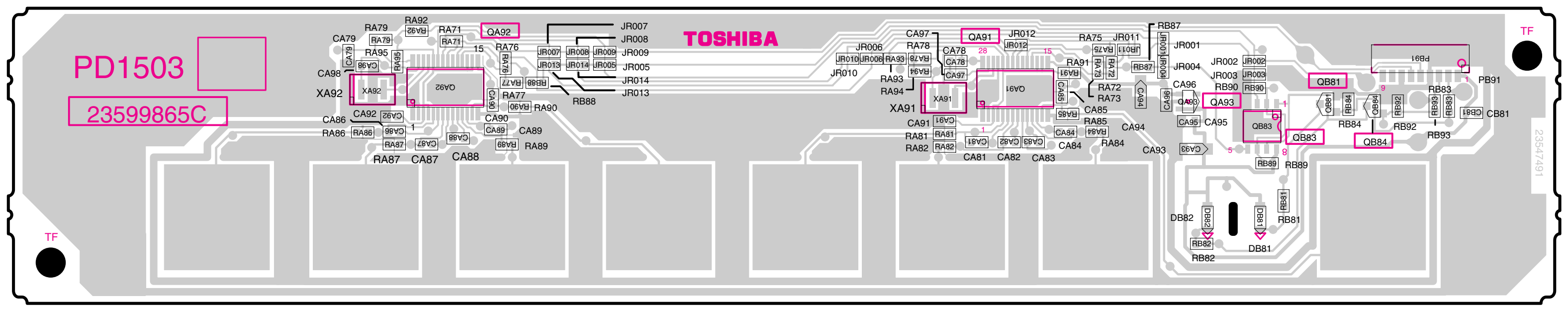
DOOR SWITCH BOARD PD1773A-4 (UA03)

BOTTOM (FOIL) SIDE


TOSHIBA
B1-V-0

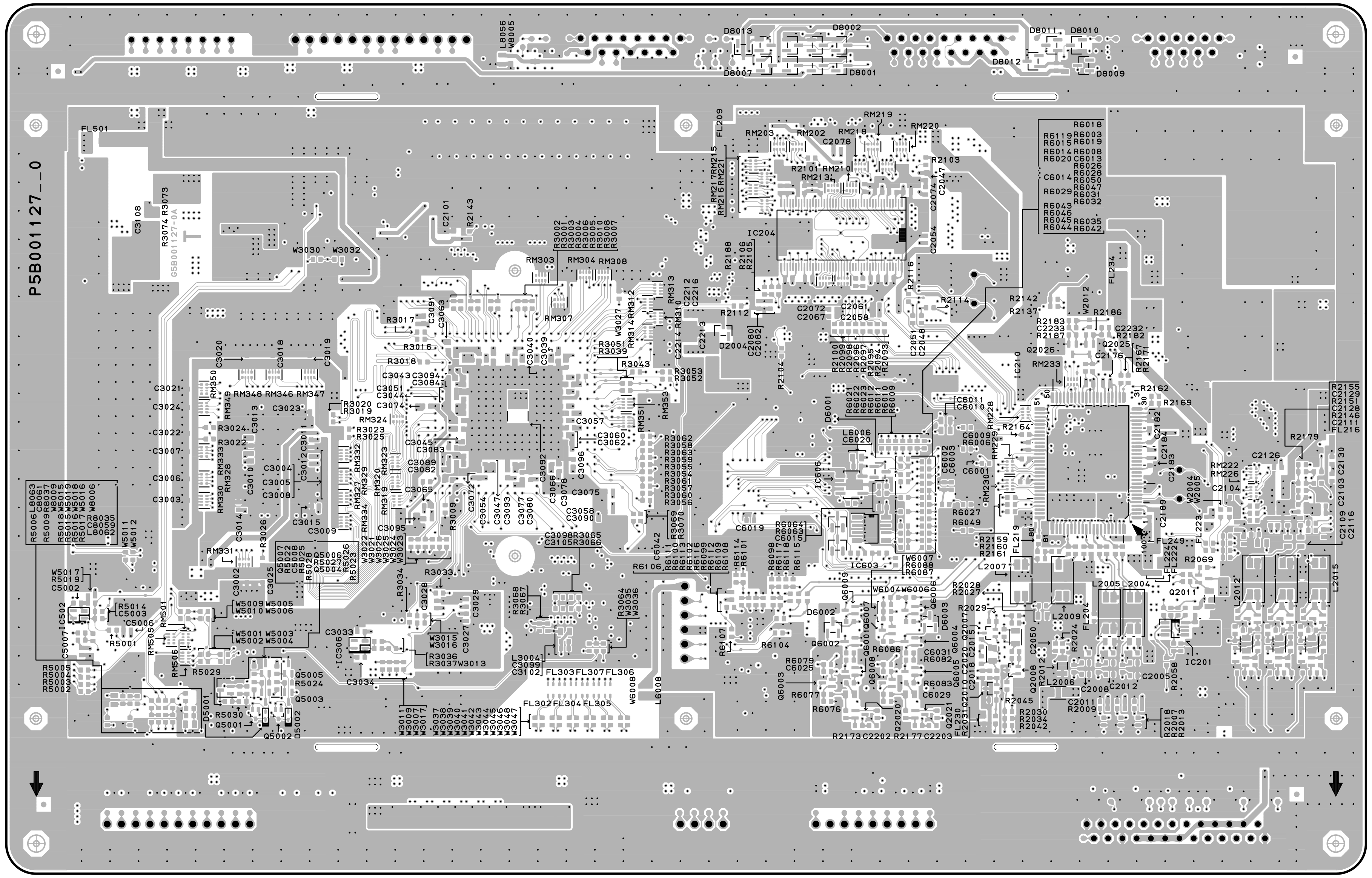
FRONT KEY BOARD PD1503 (UA06)

TOP (COMPONENT) SIDE


PD1503
23599865C
TOSHIBA
QA92
QA91
QA93
QB81
QB83
QB84
TF

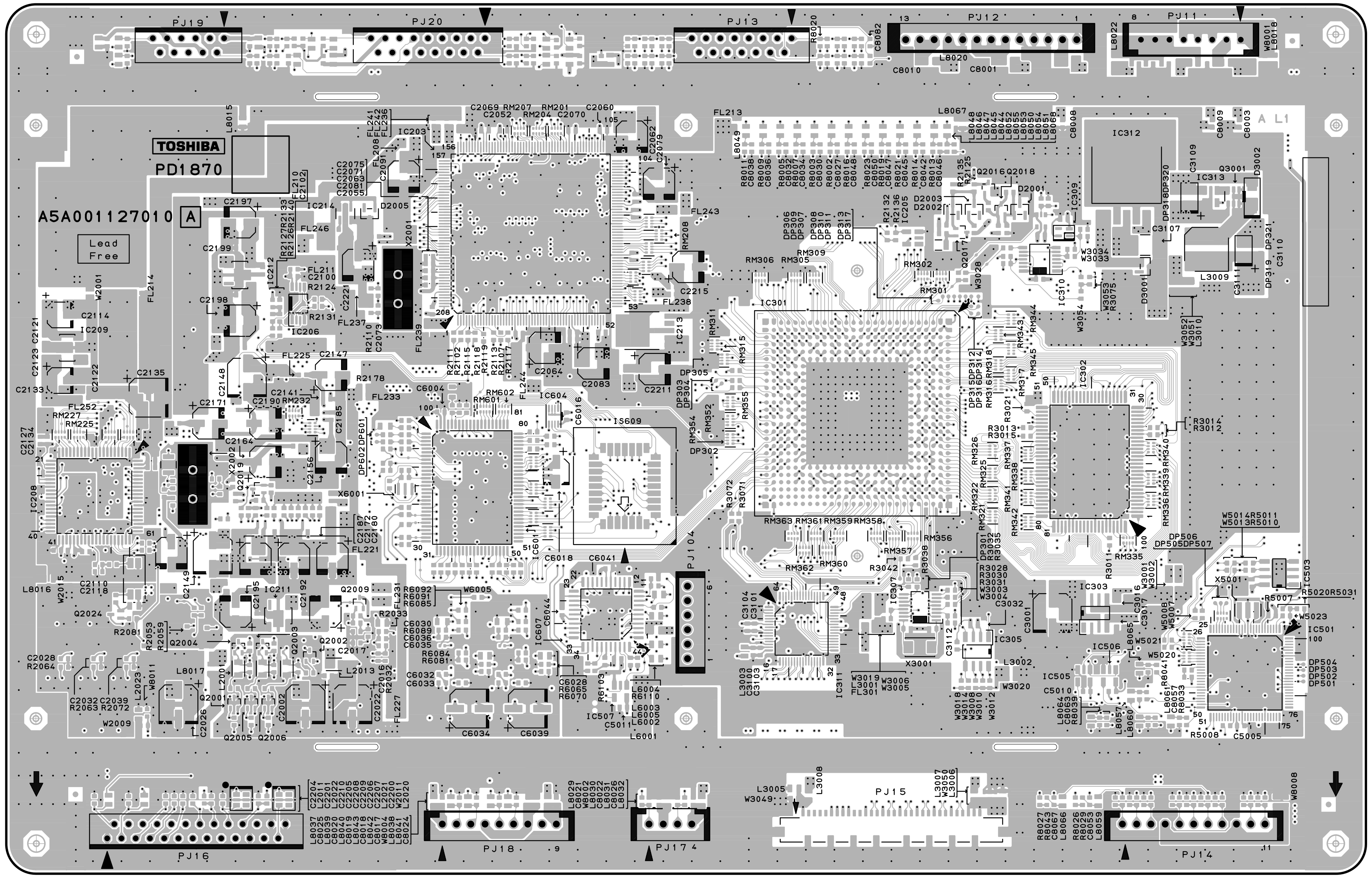
OPSS SCALER BOARD (46HM84:PD1870C1 52HM84:PD1870A1 62HM84:PD1870B1) (UD02)

BOTTOM (FOIL) SIDE


P5B001127_0

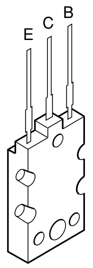
OPSS SCALER BOARD (46HM84:PD1870C1 52HM84:PD1870A1 62HM84:PD1870B1) (UD02)

TOP (COMPONENT) SIDE


PJ19
PJ20
PJ13
PJ12
PJ11
TOSHIBA
PD1870
A5A001127010
A
Lead
Free
IC203
IC312
IC301
IC302
IC303
IC305
IC501
IC505
IC506
IC507
IC209
IC206
IC208
IC213
IC604
PJ104
X2001
X2002
X3001
X5001
X6001
PJ16
PJ18
PJ17
PJ15
PJ14
A L1

TERMINAL VIEW OF TRANSISTORS

① 2SC5144
2SC5859



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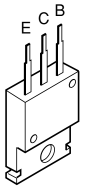

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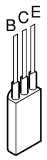

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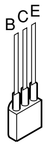
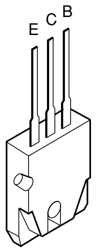
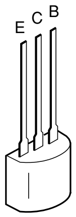


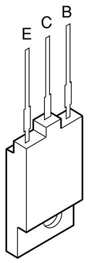
⑤ 2SA1788



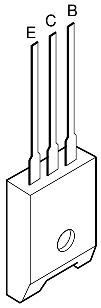
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SD2553
2SC5143



⑧ ON4409



SCHEMATIC DIAGRAM

MODEL : 46HM84/52HM84/62HM84

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

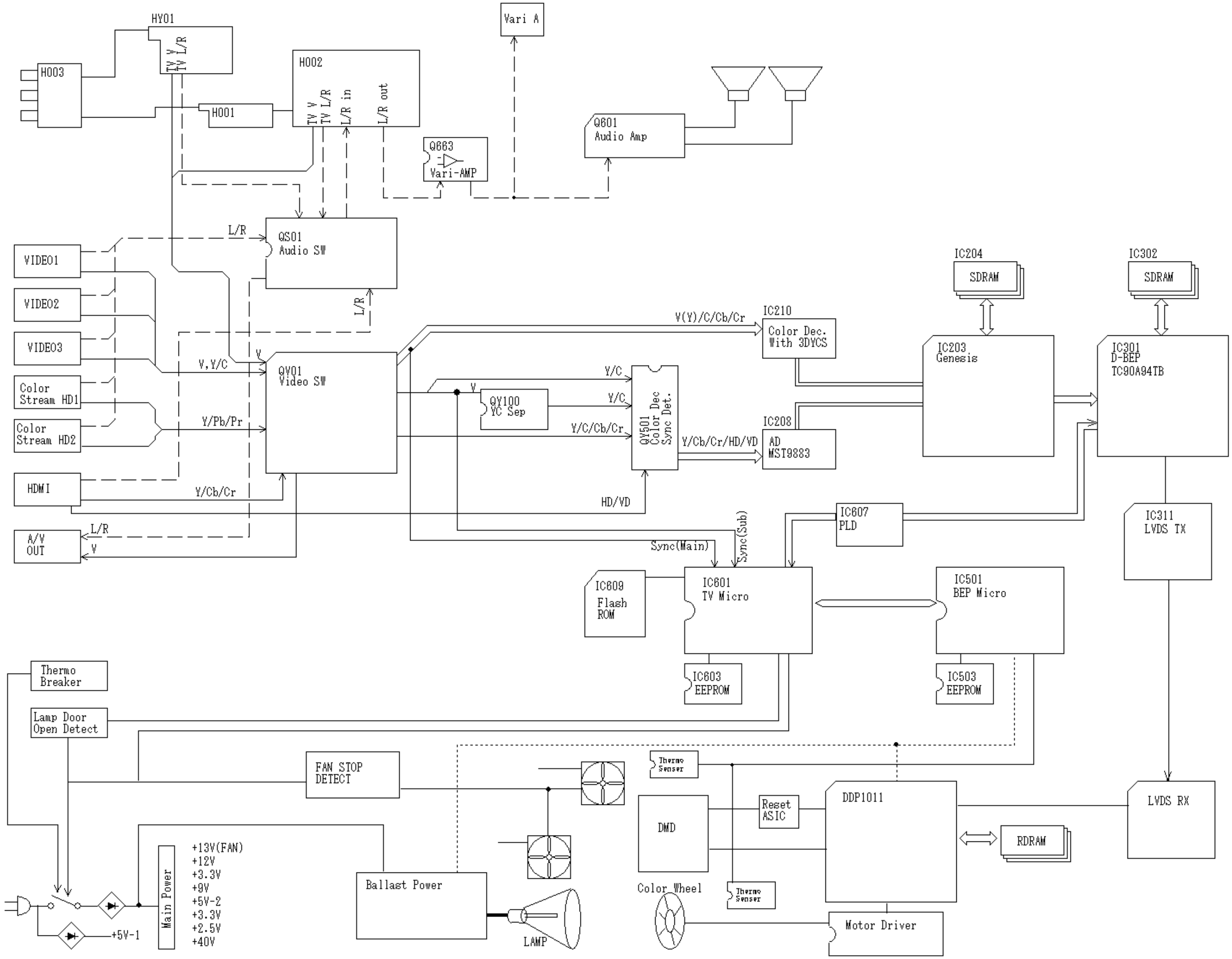
NOTE:

1. RESISTOR — Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   - 1/2R = Metal or Metal oxide of 1/2 watt
   - 1/2S = Carbon compsistion of 1/2 watt
   - 1RF = Fuse resistor of 1 watt
   - 10W = Cement of 10 watt
   - K = ±10% G = ±2% F = ±1%
2. CAPACITOR — Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   - —+| |— Electolytic capacitor
   - —Ⓜ| |— Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMA TIC DIAGRAM STRUCTURE:

- BACK AV Circuit
  - (1/5) [SHEET - 1/5] 1/52
  - (2/5) [SHEET - 2/5] 2/52
  - (3/5) [SHEET - 3/5] 3/52
  - (4/5) [SHEET - 4/5] 4/52
  - (5/5) [SHEET - 5/5] 5/52
- IF AUDIO Circuit
  - (1/3) [SHEET - 1/3] 6/12
  - (2/3) [SHEET - 2/3] 7/52
  - (3/3) [SHEET - 3/3] 8/52
- F-AV Circuit 9/52
- AV_CONNECTOR Circuit 10/52
- AD_LPF Circuit 11/52
- DVCD2_LPF Circuit 12/52
- DVCD1_LPF Circuit 13/52
- 3chADC HD Circuit 14/52
- 3chADC MST9883 Circuit 15/52
- DVCD CSYNCIN Circuit 16/52
- DVCD TC90A92AFG Circuit 17/52
- DVCD POWER Circuit 18/52
- GENESIS Circuit
  - (1/2) [SHEET - 1/2] 19/52
  - (2/2) [SHEET - 2/2] 20/52
- SDRAM Circuit 21/52
- GENESIS_POWER Circuit 22/52
- GENESIS_IIC Circuit 23/52
- SCALER DIGITAL INPUT Circuit 24/52
- SCALER CAPTURE INPUT Circuit 25/52
- DDR SDRAM Circuit 26/52
- SCALER PLL Circuit 27/52
- OSD for North America Circuit 28/52
- IIC Circuit 29/52
- 94TB POWER Circuit 30/52
- LVDS OUT Circuit 31/52
- Power (3.3V_2 to 2.5V_DVCC) Circuit 32/52
- LVDS OUT CONNECTOR Circuit 33/52
- DC/DC CONVERTER Circuit 34/52
- SUB MICON Circuit
  - (1/3) [SHEET - 1/3] 35/52
  - (2/3) [SHEET - 2/3] 36/52
  - (3/3) [SHEET - 3/3] 37/52
- OSD MICON 4/4 Circuit 38/52
- MICON Circuit
  - (1/3) [SHEET - 1/3] 39/52
  - (2/3) [SHEET - 2/3] 40/52
  - (2/3) [SHEET - 3/3] 41/52
- TV MICON RESET IC & FLASH Circuit 42/52
- SYNC_DETECT Circuit 43/52
- PLD (US OSD SYNC Generator) Circuit 44/52
- POWER_CONNECTOR Circuit 45/52
- TV MICON CONNECTOR (1) Circuit 46/52
- CONNECTOR (TV MICON-POWER BOARD) Circuit 47/52
- CONNECTOR (DLF I/F) Circuit 48/52
- SERVICE CONNECTOR Circuit 49/52
- Front Key Circuit 50/52
- MAIN POWER Circuit 51/52
- AC IN Circuit 52/52

CIRCUIT BLOCK DIAGRAM


HY01
TV V
TV L/R
H003
H001
H002
TV V
TV L/R
L/R in
L/R out
Vari A
Q663
Vari-AMP
Q601
Audio Amp
L/R
QS01
Audio SW
L/R
VIDEO1
VIDEO2
VIDEO3
Color Stream HD1
Color Stream HD2
HDMI
A/V OUT
L/R
V
V
V,Y/C
Y/Pb/Pr
Y/Cb/Cr
QV01
Video SW
V(Y)/C/Cb/Cr
IC210
Color Dec. With 3DYCS
V
QY100
YC Sep
Y/C
Y/C
Y/C/Cb/Cr
QY501
Color Dec
Sync Det.
Y/Cb/Cr/HD/VD
IC208
AD
MST9883
HD/VD
Sync(Main)
Sync(Sub)
IC204
SDRAM
IC203
Genesis
IC302
SDRAM
IC301
D-BEP
TC90A94TB
IC607
PLD
IC311
LVDS TX
IC609
Flash ROM
IC601
TV Micro
IC603
EEPROM
IC501
BEP Micro
IC503
EEPROM
Thermo Breaker
Lamp Door Open Detect
FAN STOP DETECT
Thermo Sensor
Reset ASIC
DMD
DDP1011
RDRAM
LVDS RX
Color Wheel
Thermo Sensor
Motor Driver
Main Power
+13V(FAN)
+12V
+3.3V
+9V
+5V-2
+3.3V
+2.5V
+40V
+5V-1
Ballast Power
LAMP

Specifications

• Design and specifications are subject to change without notice.

Television System
NTSC standard

Channel Coverage
VHF: 2 through 13
UHF: 14 through 69
Cable TV: Mid band (A-8 through A-1, A through I)
Super band (J through W)
Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 125)

Power Source
120 V AC, 60 Hz

Power Consumption
190 W (average)

Audio Power
20 W + 20 W

Speaker Type
Main: Two 4 inches (10 cm) round
Tweeter: Two 1-5/8 inches (4 cm) round

Video/Audio Terminals
S-VIDEO INPUT
Y : 1 V(p-p), 75 ohms, negative sync.
C : 0.286 V(p-p) (burst signal), 75 ohms
VIDEO/AUDIO INPUT
VIDEO: 1 V(p-p), 75 ohms, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 22 k ohms or more)
ColorStream® (component video) INPUT
Y : 1V(p-p), 75 ohms
PR: 0.7 V(p-p), 75 ohms
PB: 0.7 V(p-p), 75 ohms
AUDIO: 150 mV(rms), 22 k ohms or more
VIDEO/AUDIO OUTPUT
VIDEO: 1 V(p-p), 75 ohms, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 2.2 k ohms or less)
VARIABLE AUDIO OUTPUT
0–300 mV(rms) (30% modulation equivalent, 2.2 k ohms or less)
HDMI INPUT:
HDMI compliant (type A connector)
HDCP compliant
E-EDID* compliant
Suggested scan rates: 1080i, 480p, 480i, 720p
HDMI Audio: 2-channel PCM
32/44.1/48 kHz sampling frequency
16/20/24 bits per sample

Dimensions

46HM84:	Width	53-1/8 inches (1,349 mm)
	Height	31-13/16 inches (808 mm)
	Depth	15-1/4 inches (387 mm)
52HM84:	Width	58-3/8 inches (1,483 mm)
	Height	35-1/16 inches (890 mm)
	Depth	15-1/4 inches (387 mm)
62HM84:	Width	67-1/16 inches (1,703 mm)
	Height	40-15/16 inches (1,040 mm)
	Depth	18-3/16 inches (462 mm)

Mass
46HM84: 78 lbs (35.0 kg)
52HM84: 83 lbs (38.0 kg)
62HM84: 99 lbs (45.0 kg)

Supplied Accessories
Remote Control with 2 size “AA” alkaline batteries
Owner’s Manual (this book)
Important notes sheet

Optional TV Stand
46HM84: ST4684
52HM84: ST5284
62HM84: ST6284

Operating condition
Temperature: 41°F–95°F (5°C–35°C)

– END –

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 46HM84/52HM84/62HM84

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt
   10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.

Electolytic capacitor

Mylar capacitor

3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMA TIC DIAGRAM STRUCTURE:

- BACK AV Circuit
  - (1/5) [SHEET - 1/5] 1/52
  - (2/5) [SHEET - 2/5] 2/52
  - (3/5) [SHEET - 3/5] 3/52
  - (4/5) [SHEET - 4/5] 4/52
  - (5/5) [SHEET - 5/5] 5/52
- IF AUDIO Circuit
  - (1/3) [SHEET - 1/3] 6/12
  - (2/3) [SHEET - 2/3] 7/52
  - (3/3) [SHEET - 3/3] 8/52
- F-AV Circuit 9/52
- AV_CONNECTOR Circuit 10/52
- AD_LPF Circuit 11/52
- DVCD2_LPF Circuit 12/52
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- 3chADC HD Circuit 14/52
- 3chADC MST9883 Circuit 15/52
- DVCD CSYNCIN Circuit 16/52
- DVCD TC90A92AFG Circuit 17/52
- DVCD POWER Circuit 18/52
- GENESIS Circuit
  - (1/2) [SHEET - 1/2] 19/52
  - (2/2) [SHEET - 2/2] 20/52

SDRAM Circuit 21/52

- GENESIS_POWER Circuit 22/52
- GENESIS_IIC Circuit 23/52
- SCALER DIGITAL INPUT Circuit 24/52
- SCALER CAPTURE INPUT Circuit 25/52
- DDR SDRAM Circuit 26/52
- SCALER PLL Circuit 27/52
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- LVDS OUT CONNECTOR Circuit 33/52
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  - (2/3) [SHEET - 2/3] 36/52
  - (3/3) [SHEET - 3/3] 37/52
- OSD MICON 4/4 Circuit 38/52
- MICON Circuit
  - (1/3) [SHEET - 1/3] 39/52
  - (2/3) [SHEET - 2/3] 40/52
  - (2/3) [SHEET - 3/3] 41/52
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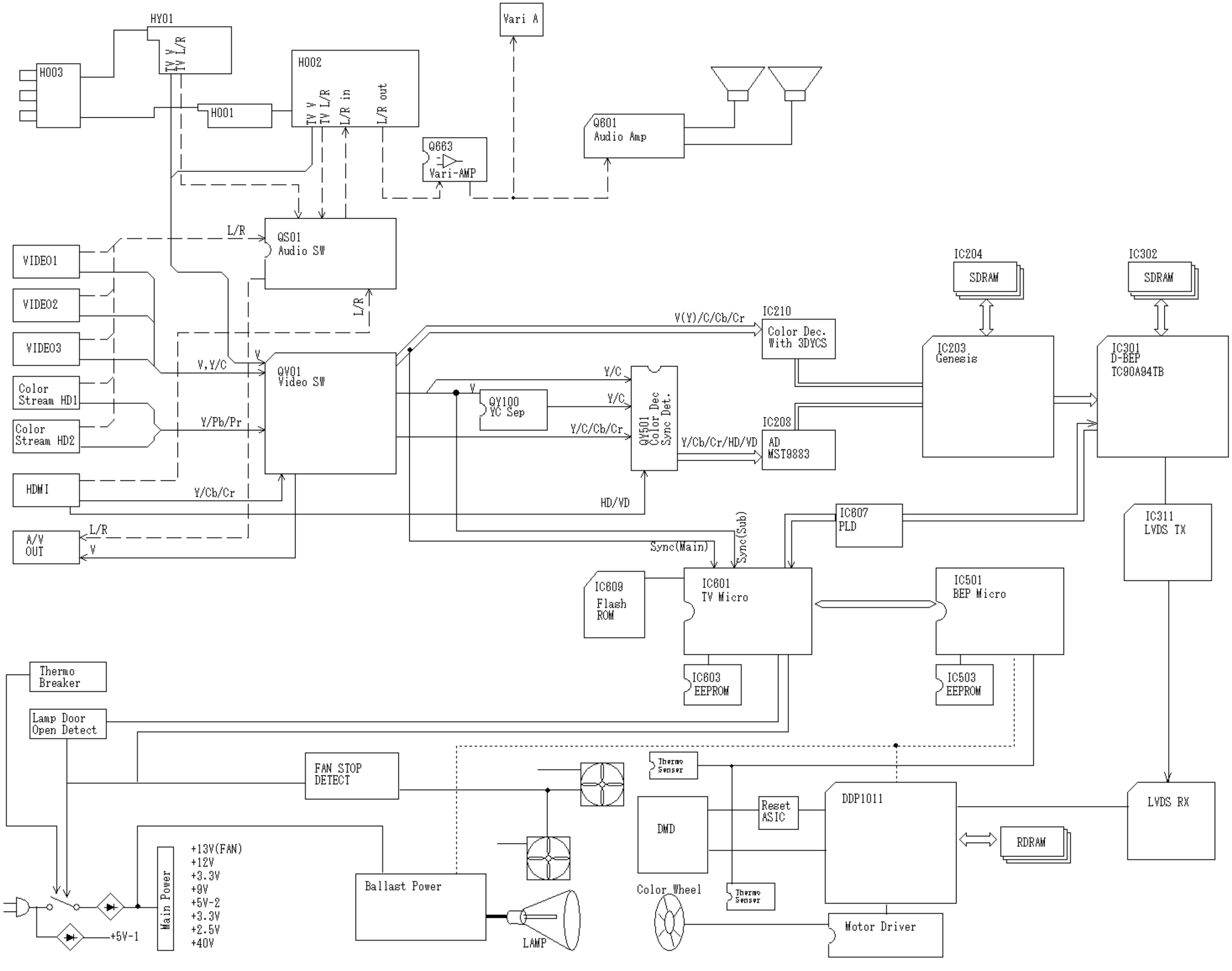
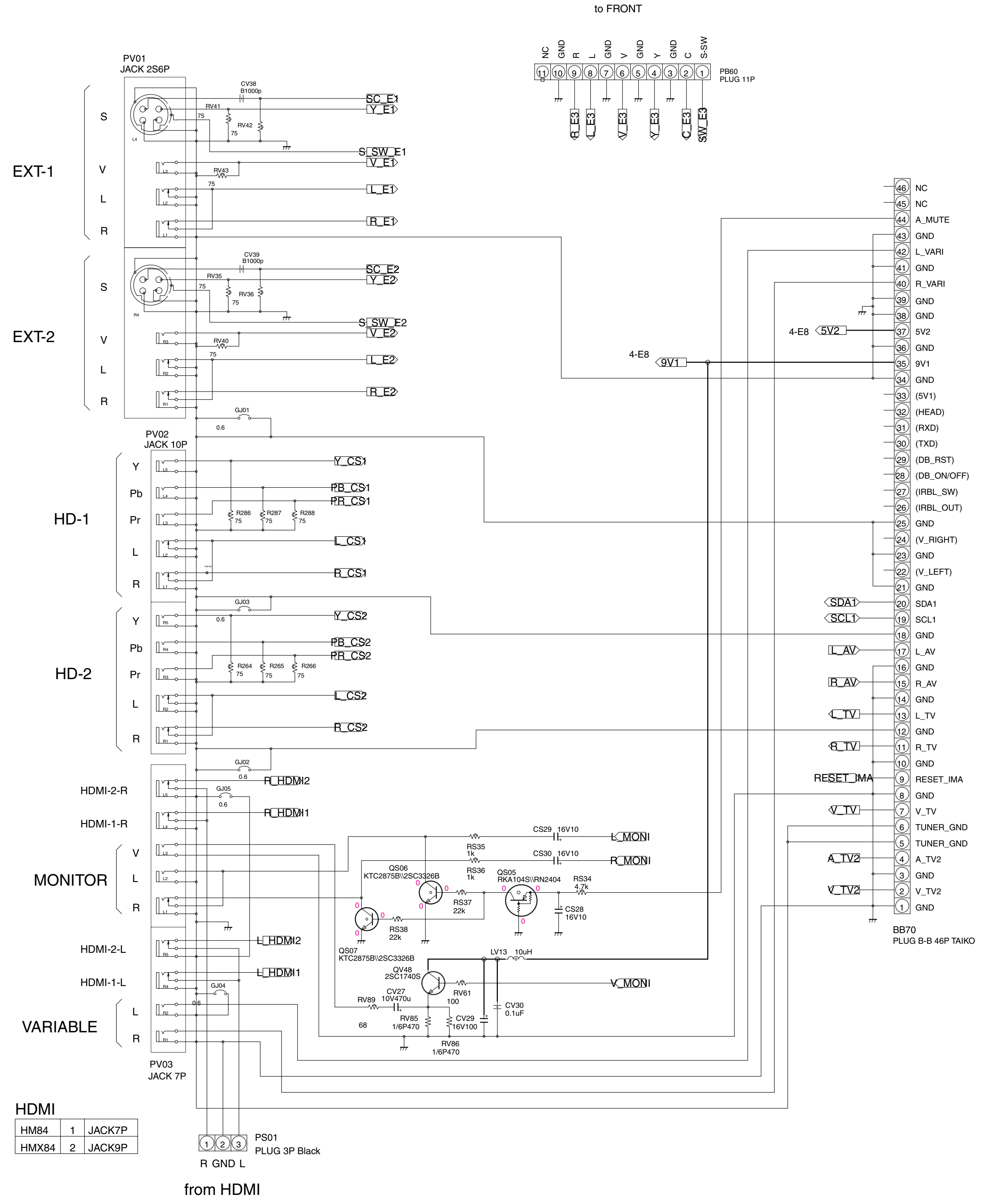
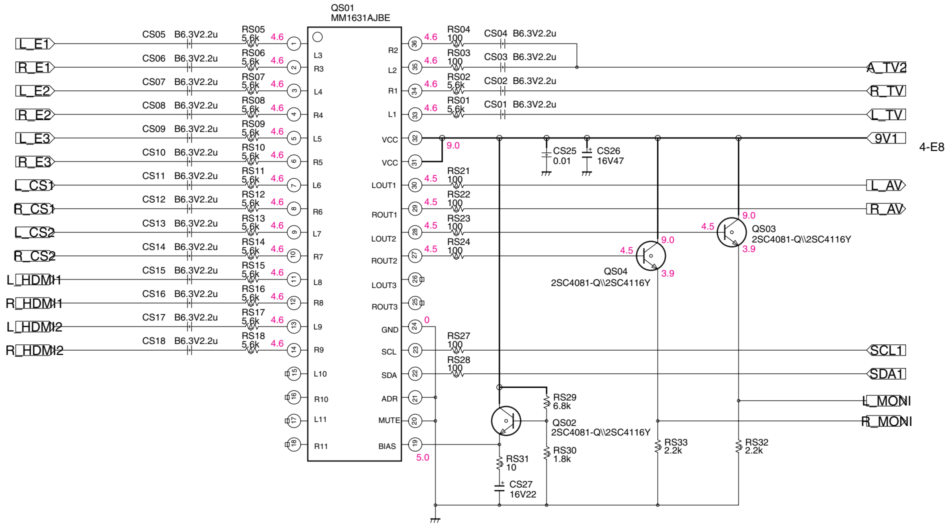
- CONNECTOR (DLF I/F) Circuit 48/52
- SERVICE CONNECTOR Circuit 49/52
- Front Key Circuit 50/52
- MAIN POWER Circuit 51/52
- AC IN Circuit 52/52

CIRCUIT BLOCK DIAGRAM


HY01
TV V
TV L/R
H003
H001
H002
TV V
TV L/R
L/R in
L/R out
Vari A
Q663
Vari-AMP
Q601
Audio Amp
L/R
QS01
Audio SW
L/R
VIDEO1
VIDEO2
VIDEO3
Color Stream HD1
Color Stream HD2
HDMI
A/V OUT
L/R
V
V,Y/C
V
Y/Pb/Pr
Y/Cb/Cr
QV01
Video SW
V(Y)/C/Cb/Cr
IC210
Color Dec. With 3DYCS
Y/C
V
QY100
YC Sep
Y/C
Y/C/Cb/Cr
QY501
Color Dec
Sync Det.
Y/Cb/Cr/HD/VD
IC208
AD
MST9883
HD/VD
IC204
SDRAM
IC203
Genesis
IC302
SDRAM
IC301
D-BEP
TC90A94TB
IC607
PLD
IC311
LVDS TX
Sync(Main)
Sync(Sub)
IC609
Flash ROM
IC601
TV Micro
IC603
EEPROM
IC501
BEP Micro
IC503
EEPROM
Thermo Breaker
Lamp Door Open Detect
FAN STOP DETECT
Thermo Sensor
Reset ASIC
DMD
DDP1011
LVDS RX
RDRAM
Main Power
+13V(FAN)
+12V
+3.3V
+9V
+5V-2
+3.3V
+2.5V
+40V
+5V-1
Ballast Power
LAMP
Color Wheel
Thermo Sensor
Motor Driver

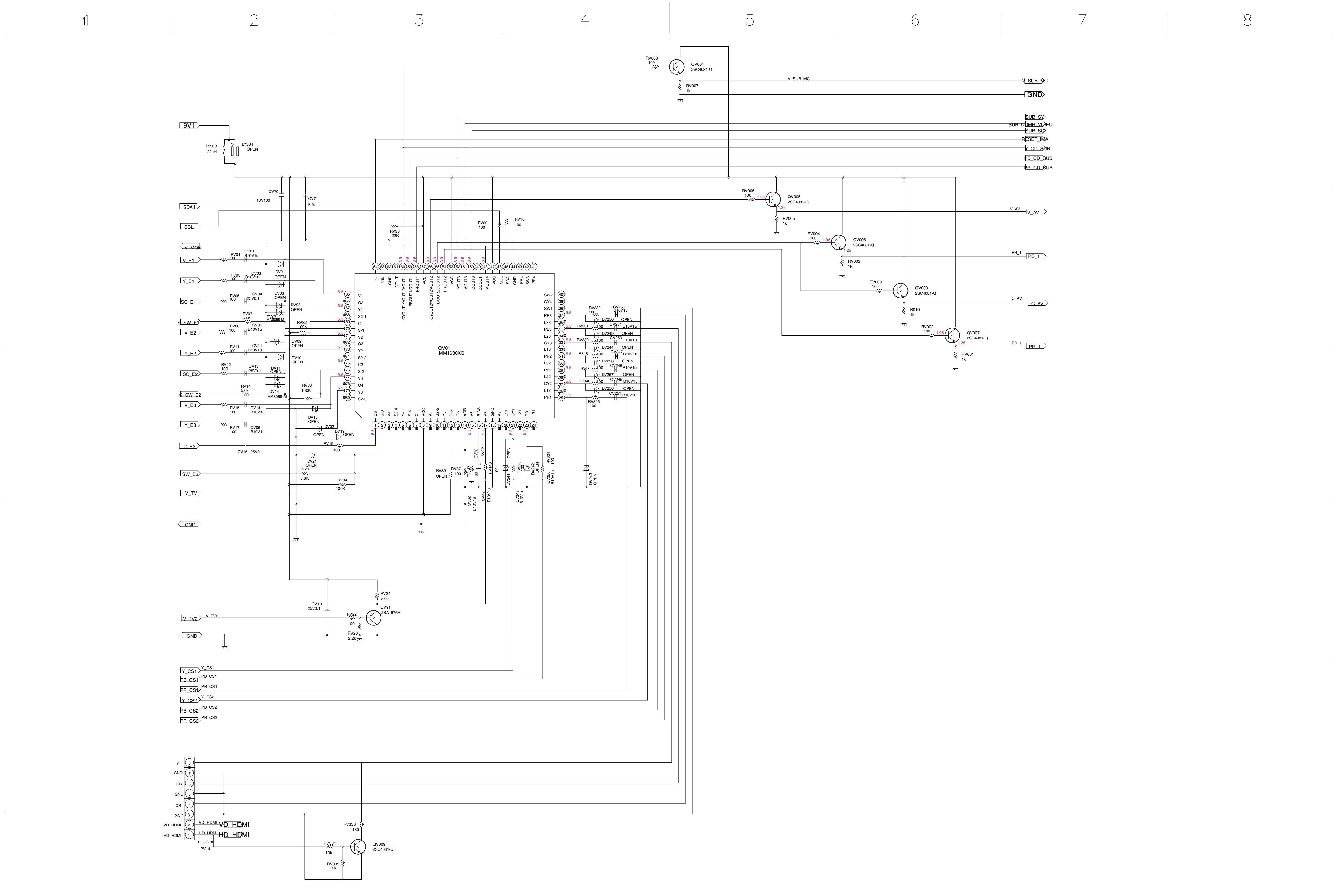

to FRONT
NC
GND
R
L
GND
V
GND
Y
GND
C
S-SW
11 10 9 8 7 6 5 4 3 2 1
PB60
PLUG 11P
R_E3
L_E3
V_E3
Y_E3
C_E3
SW_E3
PV01
JACK 2S6P
EXT-1
S
V
L
R
CV38
B1000p
RV41
75
RV42
75
RV43
75
SC_E1
Y_E1
S_SW_E1
V_E1
L_E1
R_E1
EXT-2
CV39
B1000p
RV35
75
RV36
75
RV40
75
SC_E2
Y_E2
S_SW_E2
V_E2
L_E2
R_E2
GJ01
0.6
PV02
JACK 10P
HD-1
Y
Pb
Pr
L
R
Y_CS1
PB_CS1
PR_CS1
R286
75
R287
75
R288
75
L_CS1
R_CS1
GJ03
0.6
HD-2
Y_CS2
PB_CS2
PR_CS2
R264
75
R265
75
R266
75
L_CS2
R_CS2
GJ02
0.6
HDMI-2-R
R_HDMI2
GJ05
0.6
HDMI-1-R
R_HDMI1
MONITOR
V
L
R
CS29 16V10
L_MONI
RS35
1k
CS30 16V10
R_MONI
RS36
1k
QS06
KTC2875B\2SC3326B
QS05
RKA104S\RN2404
RS34
4.7k
RS37
22k
CS28
16V10
RS38
22k
QS07
KTC2875B\2SC3326B
HDMI-2-L
L_HDMI2
HDMI-1-L
L_HDMI1
LV13 10uH
QV48
2SC1740S
V_MONI
RV89
68
CV27
10V470u
RV61
100
CV30
0.1uF
RV85
1/6P470
CV29
16V100
RV86
1/6P470
GJ04
0.6
VARIABLE
L
R
PV03
JACK 7P
HDMI
HM84 | 1 | JACK7P
HMX84 | 2 | JACK9P
PS01
PLUG 3P Black
1 2 3
R GND L
from HDMI
4-E8
9V1
4-E8
5V2
46 NC
45 NC
44 A_MUTE
43 GND
42 L_VARI
41 GND
40 R_VARI
39 GND
38 GND
37 5V2
36 GND
35 9V1
34 GND
33 (5V1)
32 (HEAD)
31 (RXD)
30 (TXD)
29 (DB_RST)
28 (DB_ON/OFF)
27 (IRBL_SW)
26 (IRBL_OUT)
25 GND
24 (V_RIGHT)
23 GND
22 (V_LEFT)
21 GND
20 SDA1
19 SCL1
18 GND
17 L_AV
16 GND
15 R_AV
14 GND
13 L_TV
12 GND
11 R_TV
10 GND
9 RESET_IMA
8 GND
7 V_TV
6 TUNER_GND
5 TUNER_GND
4 A_TV2
3 GND
2 V_TV2
1 GND
SDA1
SCL1
L_AV
R_AV
L_TV
R_TV
RESET_IMA
V_TV
A_TV2
V_TV2
BB70
PLUG B-B 46P TAIKO

46HM84/52HM84/62HM84
BACK AV (1/5)
SHEET-1/5

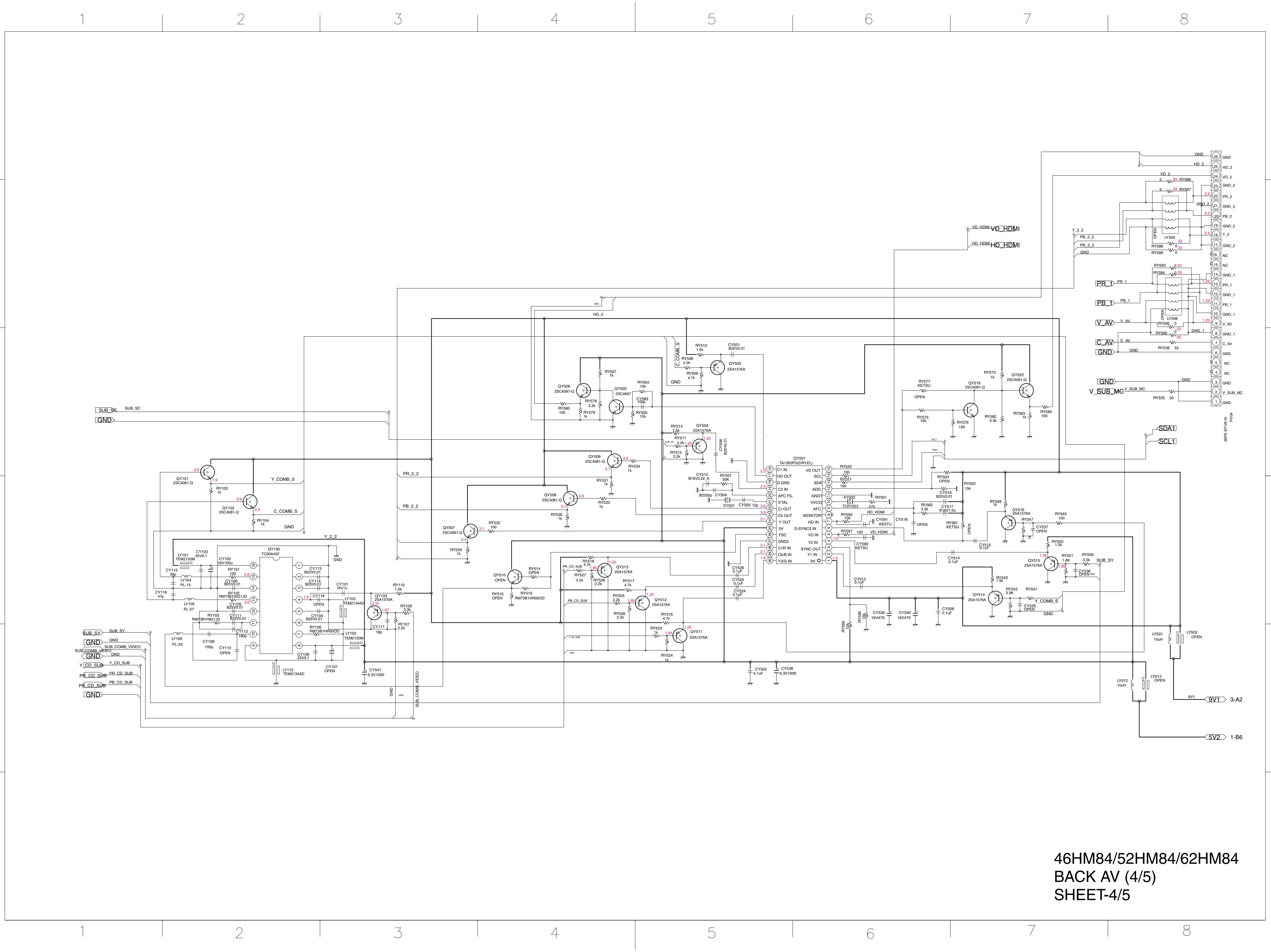


QS01
MM1631AJBE
L_E1
R_E1
L_E2
R_E2
L_E3
R_E3
L_CS1
R_CS1
L_CS2
R_CS2
L_HDMI1
R_HDMI1
L_HDMI2
R_HDMI2
CS05 B6.3V2.2u
CS06 B6.3V2.2u
CS07 B6.3V2.2u
CS08 B6.3V2.2u
CS09 B6.3V2.2u
CS10 B6.3V2.2u
CS11 B6.3V2.2u
CS12 B6.3V2.2u
CS13 B6.3V2.2u
CS14 B6.3V2.2u
CS15 B6.3V2.2u
CS16 B6.3V2.2u
CS17 B6.3V2.2u
CS18 B6.3V2.2u
RS05 5.6k
RS06 5.6k
RS07 5.6k
RS08 5.6k
RS09 5.6k
RS10 5.6k
RS11 5.6k
RS12 5.6k
RS13 5.6k
RS14 5.6k
RS15 5.6k
RS16 5.6k
RS17 5.6k
RS18 5.6k
4.6
L3
R3
L4
R4
L5
R5
L6
R6
L7
R7
L8
R8
L9
R9
L10
R10
L11
R11
R2
L2
R1
L1
VCC
VCC
LOUT1
ROUT1
LOUT2
ROUT2
LOUT3
ROUT3
GND
SCL
SDA
ADR
MUTE
BIAS
9.0
4.5
0
5.0
RS04 100
RS03 100
RS02 5.6k
RS01 5.6k
CS04 B6.3V2.2u
CS03 B6.3V2.2u
CS02 B6.3V2.2u
CS01 B6.3V2.2u
A_TV2
R_TV
L_TV
9V1
4-E8
CS25 0.01
CS26 16V47
RS21 100
RS22 100
RS23 100
RS24 100
L_AV
R_AV
QS03
2SC4081-Q\\2SC4116Y
QS04
2SC4081-Q\\2SC4116Y
3.9
RS27 100
RS28 100
SCL1
SDA1
RS29 6.8k
QS02
2SC4081-Q\\2SC4116Y
RS30 1.8k
RS31 10
CS27 16V22
L_MONI
R_MONI
RS33 2.2k
RS32 2.2k

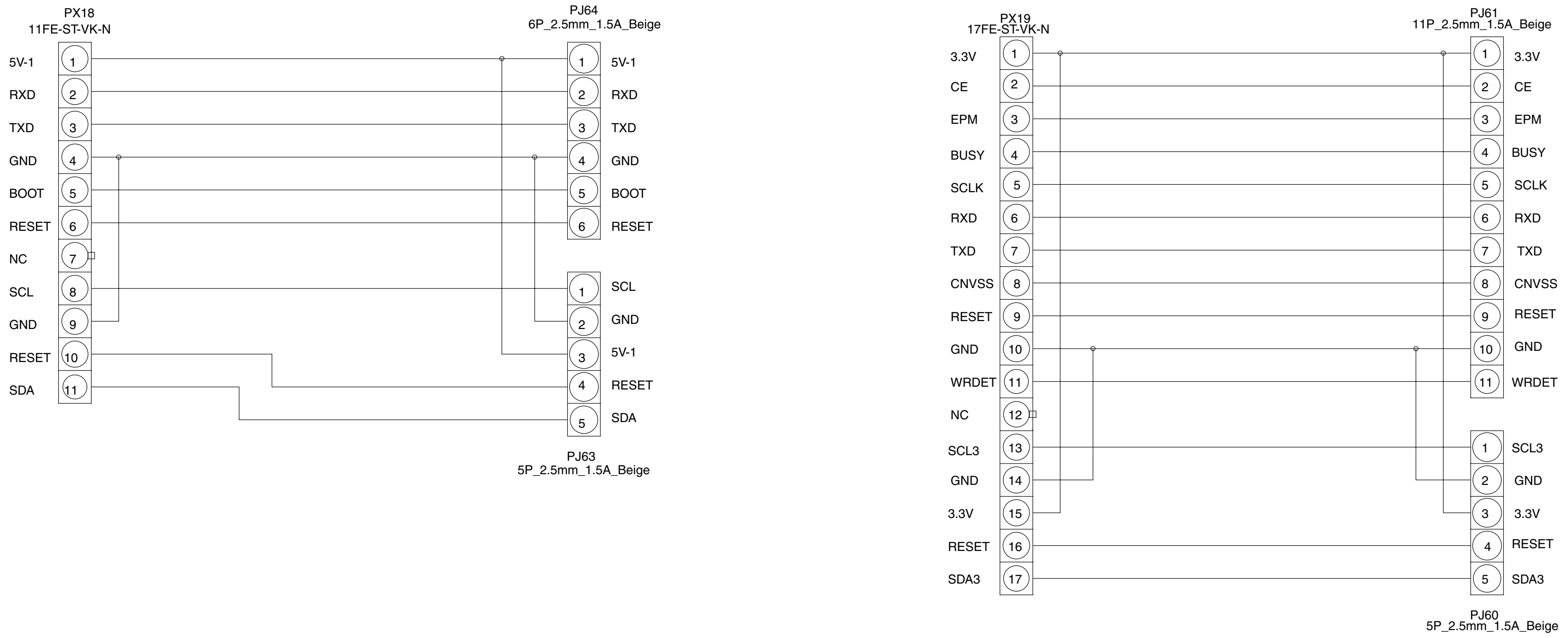
46HM84/52HM84/62HM84
BACK AV (2/5)
SHEET-2/5


9V1
LY503 22uH
LY504 OPEN
CV70 16V100
CV71 F 0.1
SDA1
SCL1
V_MONI
V_E1
Y_E1
SC_E1
S_SW_E1
V_E2
Y_E2
SC_E2
S_SW_E2
V_E3
Y_E3
C_E3
SW_E3
V_TV
GND
QV01
MM1630XQ
RV38 22K
RV09 100
RV10 100
RV008 100
QV004 2SC4081-Q
RV007 1k
V_SUB_MC
GND
SUB_SY
SUB_COMB_VIDEO
SUB_SC
RESET_IMA
V_CD_SUB
PB_CD_SUB
PR_CD_SUB
RV006 100
QV005 2SC4081-Q
RV005 1k
V_AV
RV004 100
QV006 2SC4081-Q
RV003 1k
PB_1
RV009 100
QV008 2SC4081-Q
R010 1k
C_AV
RV002 100
QV007 2SC4081-Q
RV001 1k
PR_1
CV10 25V0.1
RV24 2.2k
QV91 2SA1576A
RV22 100
RV23 2.2k
V_TV2
GND
Y_CS1
PB_CS1
PR_CS1
Y_CS2
PB_CS2
PR_CS2
Y
GND
CB
GND
CR
GND
VD_HDMI
HD_HDMI
PLUG 8P
PV14
RV333 180
RV334 10k
RV335 12k
QV009 2SC4081-Q

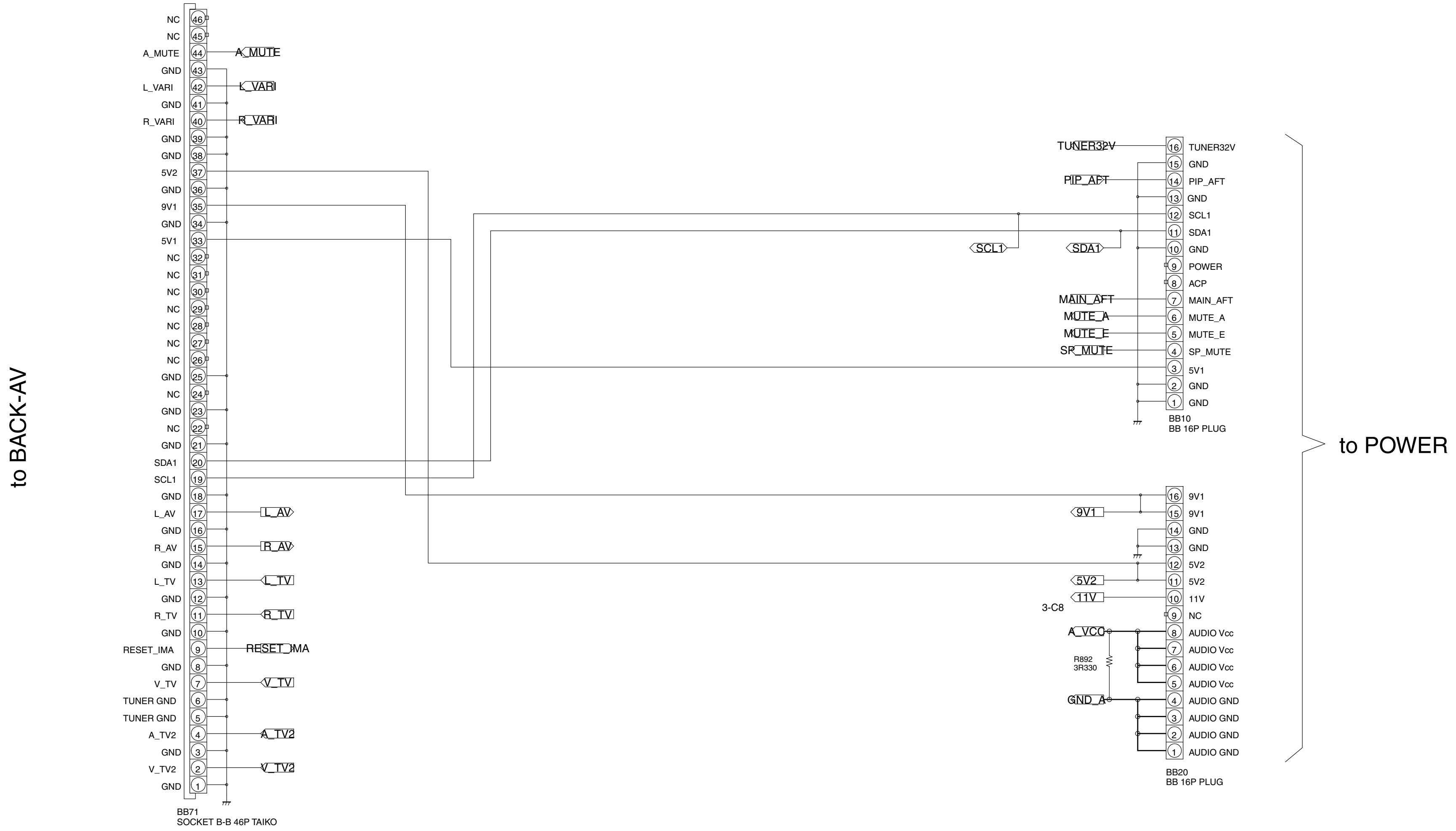
46HM84/52HM84/62HM84
BACK AV (3/5)
SHEET-3/5


1
2
3
4
5
6
7
8
A
B
C
D
E
F
QY501
TA1383FG(DRY,EL)
QY100
TC90A45F
VD_HDMI
HD_HDMI
SDA1
SCL1
PR_1
PB_1
V_AV
C_AV
GND
V_SUB_MC
SUB_SC
SUB_SY
SUB_COMB_VIDEO
Y_CD_SUB
PB_CD_SUB
PR_CD_SUB
9V1
3-A2
5V2
1-B6
Y_COMB_S
C_COMB_S
PR_2_2
PB_2_2
Y_2_2
HD_2
VD_2
PY04

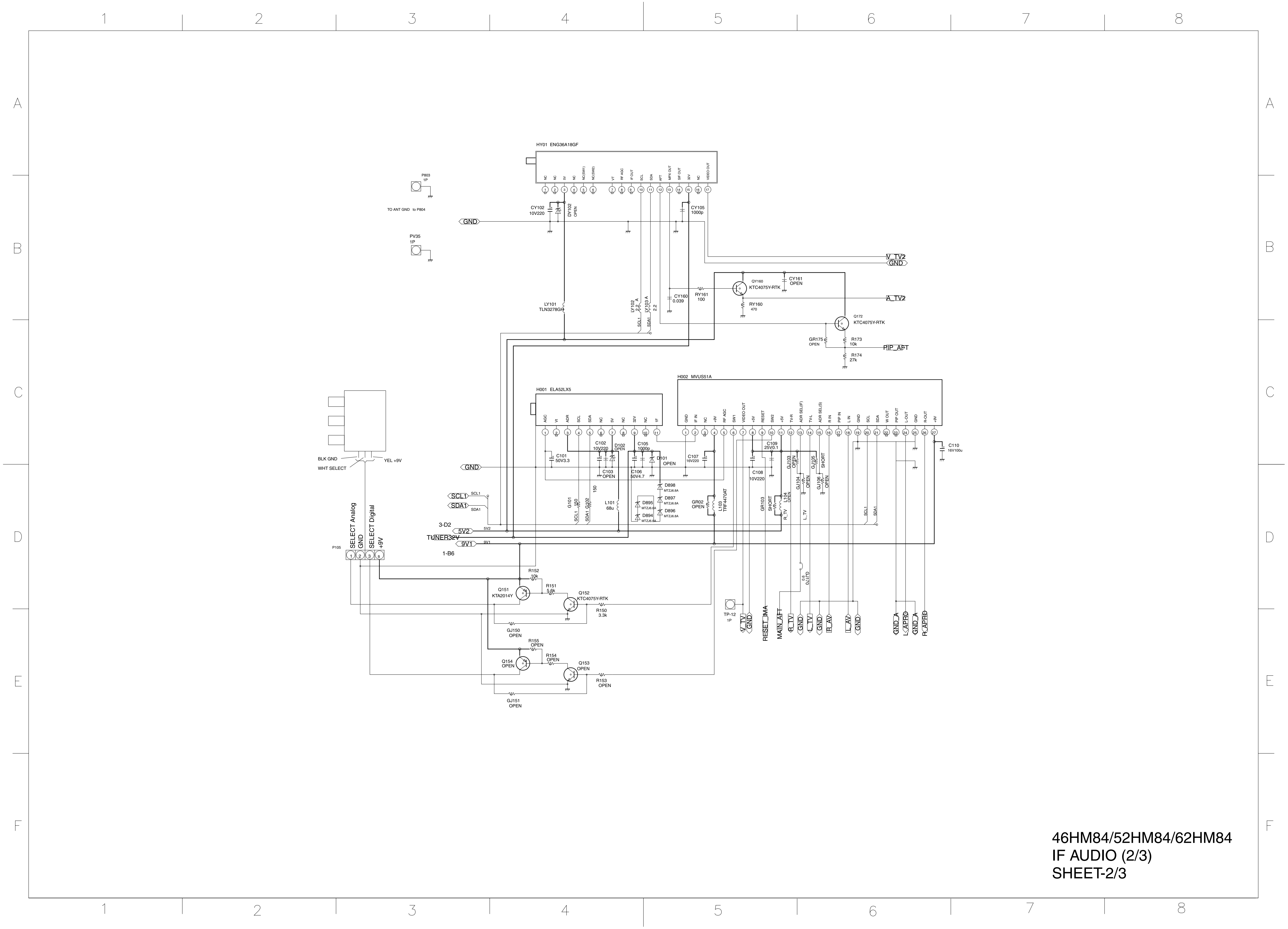
46HM84/52HM84/62HM84
BACK AV (4/5)
SHEET-4/5


PX18
11FE-ST-VK-N
5V-1
RXD
TXD
GND
BOOT
RESET
NC
SCL
GND
RESET
SDA
PJ64
6P_2.5mm_1.5A_Beige
5V-1
RXD
TXD
GND
BOOT
RESET
SCL
GND
5V-1
RESET
SDA
PJ63
5P_2.5mm_1.5A_Beige
PX19
17FE-ST-VK-N
3.3V
CE
EPM
BUSY
SCLK
RXD
TXD
CNVSS
RESET
GND
WRDET
NC
SCL3
GND
3.3V
RESET
SDA3
PJ61
11P_2.5mm_1.5A_Beige
3.3V
CE
EPM
BUSY
SCLK
RXD
TXD
CNVSS
RESET
GND
WRDET
SCL3
GND
3.3V
RESET
SDA3
PJ60
5P_2.5mm_1.5A_Beige

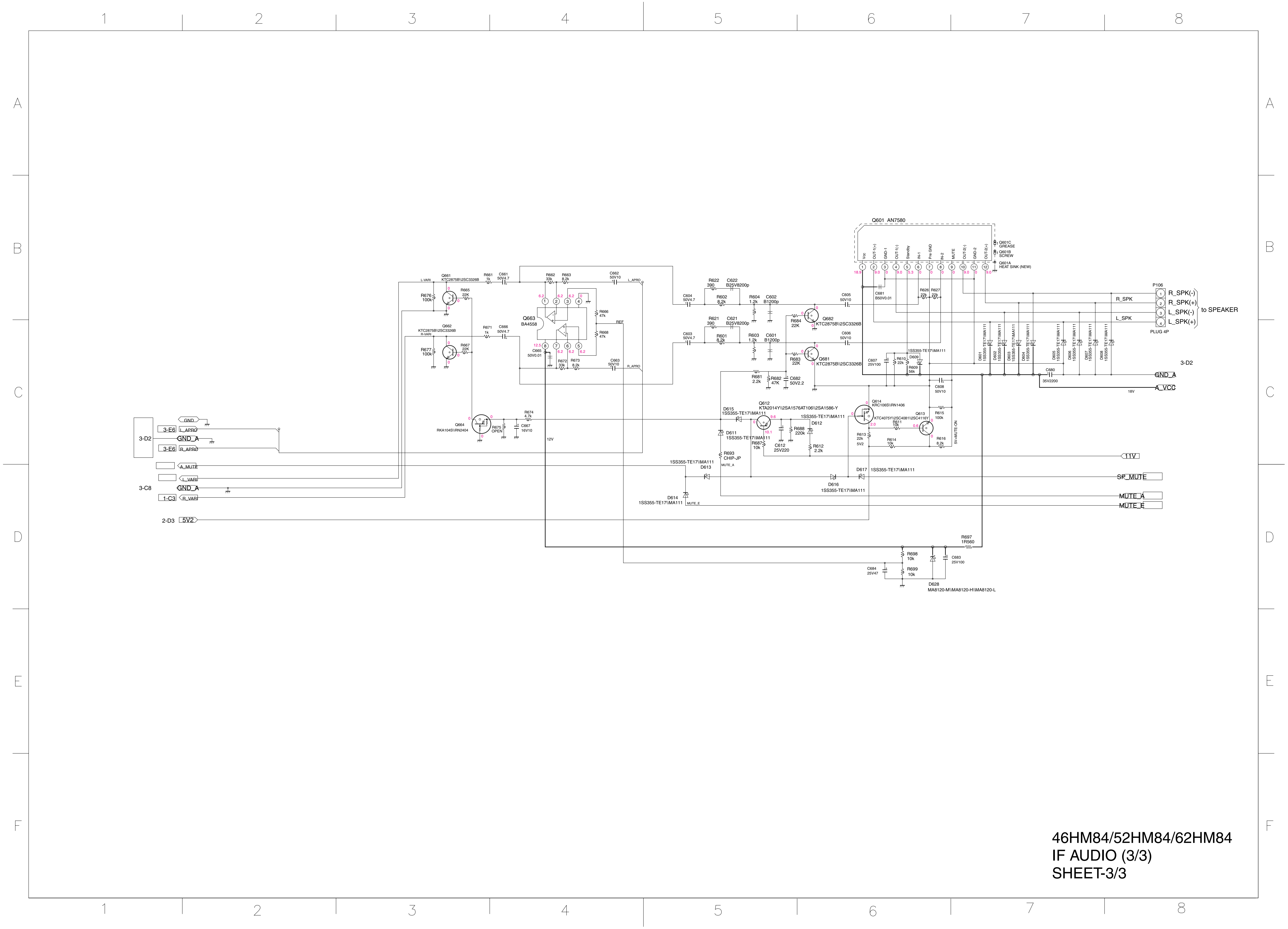
46HM84/52HM84/62HM84
BACK AV (5/5)
SHEET-5/5


to BACK-AV
NC 46
NC 45
A_MUTE 44 A_MUTE
GND 43
L_VARI 42 L_VARI
GND 41
R_VARI 40 R_VARI
GND 39
GND 38
5V2 37
GND 36
9V1 35
GND 34
5V1 33
NC 32
NC 31
NC 30
NC 29
NC 28
NC 27
NC 26
GND 25
NC 24
GND 23
NC 22
GND 21
SDA1 20
SCL1 19
GND 18
L_AV 17 L_AV
GND 16
R_AV 15 R_AV
GND 14
L_TV 13 L_TV
GND 12
R_TV 11 R_TV
GND 10
RESET_IMA 9 RESET_IMA
GND 8
V_TV 7 V_TV
TUNER GND 6
TUNER GND 5
A_TV2 4 A_TV2
GND 3
V_TV2 2 V_TV2
GND 1
BB71
SOCKET B-B 46P TAIKO
TUNER32V 16 TUNER32V
15 GND
PIP_AFT 14 PIP_AFT
13 GND
12 SCL1
11 SDA1
SCL1
SDA1 10 GND
9 POWER
8 ACP
MAIN_AFT 7 MAIN_AFT
MUTE_A 6 MUTE_A
MUTE_E 5 MUTE_E
SP_MUTE 4 SP_MUTE
3 5V1
2 GND
1 GND
BB10
BB 16P PLUG
to POWER
16 9V1
9V1 15 9V1
14 GND
13 GND
12 5V2
5V2 11 5V2
11V 10 11V
3-C8
9 NC
A_VCC 8 AUDIO Vcc
7 AUDIO Vcc
R892
3R330
6 AUDIO Vcc
5 AUDIO Vcc
GND_A 4 AUDIO GND
3 AUDIO GND
2 AUDIO GND
1 AUDIO GND
BB20
BB 16P PLUG

46HM84/52HM84/62HM84
IF AUDIO (1/3)
SHEET-1/3

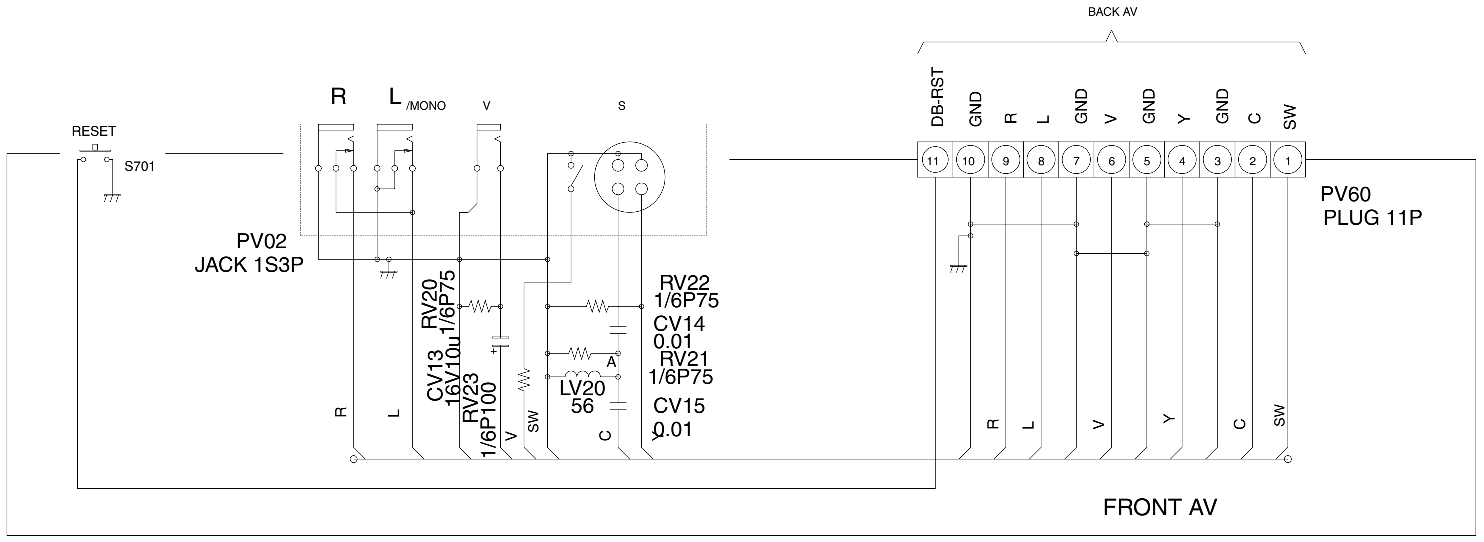

1
2
3
4
5
6
7
8
A
B
C
D
E
F
P803
1P
TO ANT GND to P804
PV35
1P
HY01 ENG36A18GF
NC
NC
5V
NC
NC(SW1)
NC(SW2)
VT
RF AGC
IF OUT
SCL
SDA
AFT
MPX OUT
SIF OUT
32V
NC
VIDEO OUT
CY102
10V220
DY102
OPEN
CY105
1000p
GND
V_TV2
GND
QY160
KTC4075Y-RTK
CY161
OPEN
CY160
0.039
RY161
100
RY160
470
A_TV2
LY101
TLN3278GH
LY102
2.2 A
LY103 A
2.2
SCL1
SDA1
Q172
KTC4075Y-RTK
GR175
OPEN
R173
10k
R174
27k
PIP_AFT
H002 MVUS51A
GND
IF IN
NC
+9V
RF AGC
SW1
VIDEO OUT
+5V
RESET
SW2
+5V
TV-R
ADR SEL(IF)
TV-L
ADR SEL(S)
R IN
PIP IN
L IN
GND
SCL
SDA
W OUT
PIP OUT
L-OUT
GND
R-OUT
+9V
H001 ELA52LX5
AGC
Vt
ADR
SCL
SDA
NC
5V
NC
32V
NC
1F
C101
50V3.3
C102
10V220
D102
OPEN
C103
OPEN
C105
1000p
D101
OPEN
C106
50V4.7
C107
16V220
C109
25V0.1
C108
10V220
C110
16V100u
GJ103
OPEN
GJ104
OPEN
GJ105
SHORT
GJ106
OPEN
BLK GND
WHT SELECT
YEL +9V
GND
SCL1
SDA1
G101
150
G102
150
L101
68u
D898
MTZJ6.8A
D897
MTZJ6.8A
D896
MTZJ6.8A
D895
MTZJ6.8A
D894
MTZJ6.8A
GR02
OPEN
L103
TRF4470AT
GR103
SHORT
L104
OPEN
R_TV
L_TV
3-D2
5V2
5V2
TUNER32V
9V1
9V1
1-B6
P105
SELECT Analog
GND
SELECT Digital
+9V
1
2
3
s
R152
10k
Q151
KTA2014Y
R151
5.6k
Q152
KTC4075Y-RTK
R150
3.3k
GJ150
OPEN
R155
OPEN
R154
OPEN
Q154
OPEN
Q153
OPEN
R153
OPEN
GJ151
OPEN
GJ170
0.6
TP-12
1P
V_TV
GND
RESET_MA
MAIN_AFT
R_TV
GND
L_TV
GND
R_AV
L_AV
GND
GND_A
L_APRO
GND_A
R_APRO

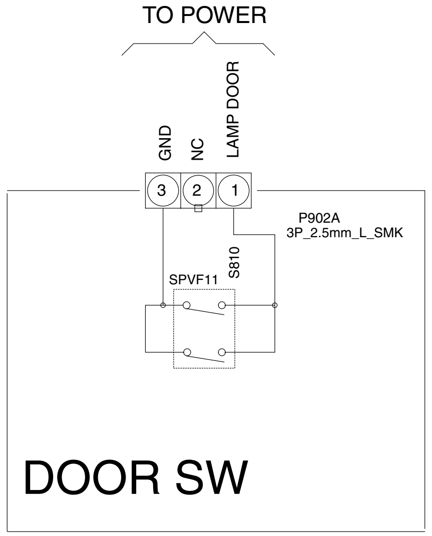
46HM84/52HM84/62HM84
IF AUDIO (2/3)
SHEET-2/3

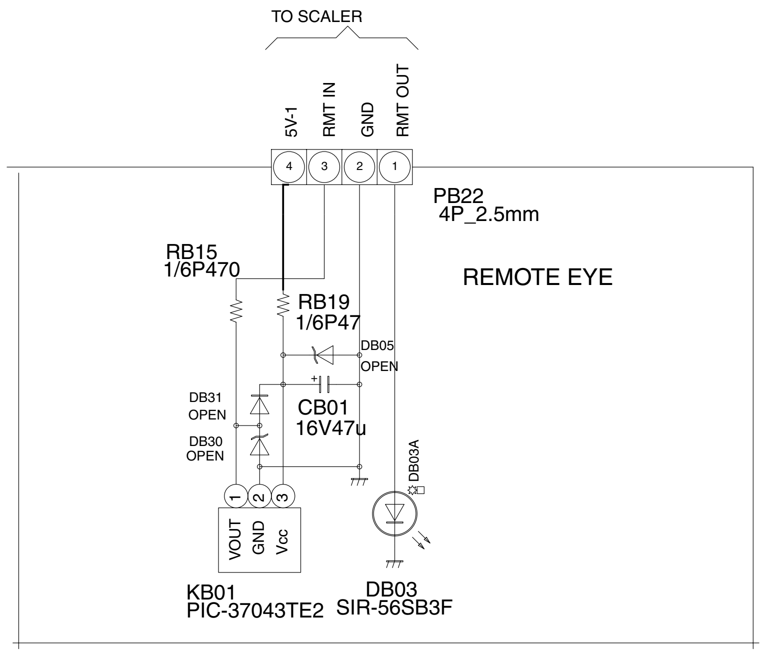


1
2
3
4
5
6
7
8
A
B
C
D
E
F
Q601 AN7580
Vcc
OUT-1(+)
GND-1
OUT-1(-)
Standby
IN-1
Pre GND
IN-2
MUTE
OUT-2(-)
GND-2
OUT-2(+)
Q601C GREASE
Q601B SCREW
Q601A HEAT SINK (NEW)
P106
R_SPK(-)
R_SPK(+)
L_SPK(-)
L_SPK(+)
to SPEAKER
PLUG 4P
R_SPK
L_SPK
3-D2
GND_A
A_VCC
18V
Q661 KTC2875B\2SC3326B
Q662 KTC2875B\2SC3326B
Q663 BA4558
Q664 RKA104S\RN2404
R676 100k
R677 100k
R665 22K
R667 22K
R661 1k
R671 1k
C661 50V4.7
C666 50V4.7
R662 33k
R663 8.2k
R666 47k
R668 47k
R672 33k
R673 8.2k
C662 50V10
C663 50V10
C665 50V0.01
R674 4.7k
R675 OPEN
C667 16V10
L_VARI
R_VARI
L_APRO
R_APRO
REF
12V
C604 50V4.7
C603 50V4.7
R622 390
R621 390
C622 B25V8200p
C621 B25V8200p
R602 8.2k
R601 8.2k
R604 1.2k
R603 1.2k
C602 B1200p
C601 B1200p
R684 22K
R683 22K
Q682 KTC2875B\2SC3326B
Q681 KTC2875B\2SC3326B
C605 50V10
C606 50V10
C681 B50V0.01
R626 22k
R627 22k
C607 25V100
R610 22k
D609
R609 56k
1SS355-TE17\MA111
D601 D602 D603 D604 D605 D606 D607 D608
C680 35V2200
C608 50V10
R681 2.2k
R682 47K
C682 50V2.2
Q612 KTA2014Y\2SA1576AT106\2SA1586-Y
Q614 KRC106S\RN1406
Q613 KTC4075Y\2SC4081\2SC4116Y
R615 100k
R611 10k
R613 22k
R614 10k
R616 8.2k
5V2
5V-MUTE-ON
D615 1SS355-TE17\MA111
D611 1SS355-TE17\MA111
D612
R687 10k
C612 25V220
R688 220k
R612 2.2k
R693 CHIP-JP
MUTE_A
D613
D614 1SS355-TE17\MA111
MUTE_E
D616 1SS355-TE17\MA111
D617 1SS355-TE17\MA111
11V
SP_MUTE
MUTE_A
MUTE_E
R697 1R560
R698 10k
R699 10k
C684 25V47
C683 25V100
D628 MA8120-M\MA8120-H\MA8120-L
3-D2
3-E6
3-E6
GND
L_APRO
GND_A
R_APRO
A_MUTE
L_VARI
3-C8
GND_A
1-C3
R_VARI
2-D3
5V2

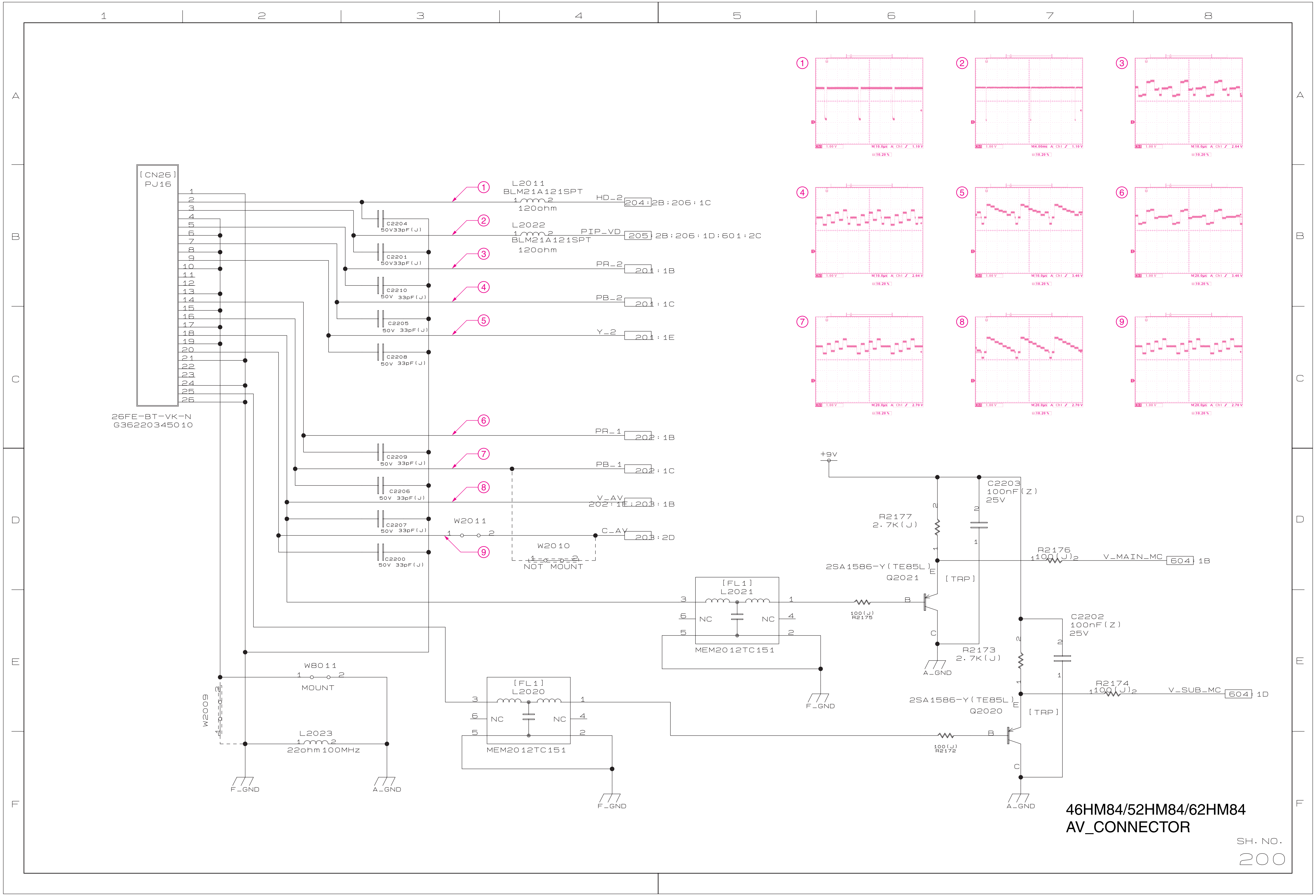
46HM84/52HM84/62HM84
IF AUDIO (3/3)
SHEET-3/3


BACK AV
DB-RST
GND
R
L
GND
V
GND
Y
GND
C
SW
11
10
9
8
7
6
5
4
3
2
1
PV60
PLUG 11P
RESET
S701
R
L /MONO
V
S
PV02
JACK 1S3P
RV20
1/6P75
CV13
16V10u
RV23
1/6P100
RV22
1/6P75
CV14
0.01
RV21
1/6P75
LV20
56
CV15
0.01
A
R
L
V
SW
C
R
L
V
Y
C
SW
FRONT AV


TO POWER
GND
NC
LAMP DOOR
3
2
1
P902A
3P_2.5mm_L_SMK
SPVF11
S810
DOOR SW


TO SCALER
5V-1
RMT IN
GND
RMT OUT
4
3
2
1
PB22
4P_2.5mm
REMOTE EYE
RB15
1/6P470
RB19
1/6P47
DB05
OPEN
DB31
OPEN
CB01
16V47u
DB30
OPEN
DB03A
1
2
3
VOUT
GND
Vcc
KB01
PIC-37043TE2
DB03
SIR-56SB3F

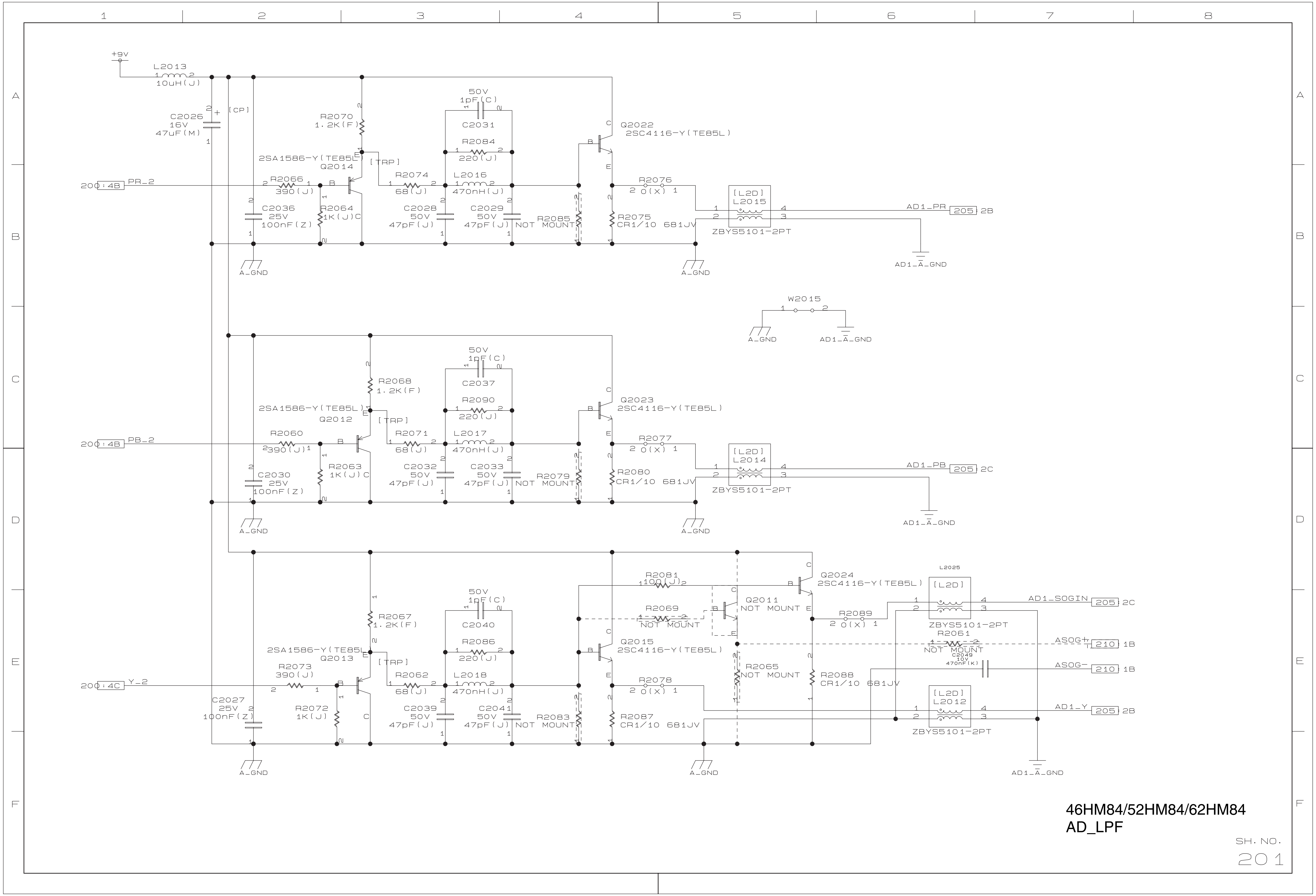
46HM84/52HM84/62HM84
F-AV



[CN26]
PJ16
26FE-BT-VK-N
G36220345010
L2011
BLM21A121SPT
120ohm
HD_2
204 : 2B : 206 : 1C
L2022
BLM21A121SPT
120ohm
PIP_VD
205 : 2B : 206 : 1D : 601 : 2C
PR_2
201 : 1B
PB_2
201 : 1C
Y_2
201 : 1E
PR_1
202 : 1B
PB_1
202 : 1C
V_AV
202 : 1E : 203 : 1B
C_AV
203 : 2D
C2204 50V33pF(J)
C2201 50V33pF(J)
C2210 50V 33pF(J)
C2205 50V 33pF(J)
C2208 50V 33pF(J)
C2209 50V 33pF(J)
C2206 50V 33pF(J)
C2207 50V 33pF(J)
C2200 50V 33pF(J)
W2011
W2010
NOT MOUNT
W8011
MOUNT
W2009
L2023
220ohm 100MHz
F_GND
A_GND
[FL1]
L2020
MEM2012TC151
[FL1]
L2021
MEM2012TC151
NC
+9V
C2203 100nF(Z) 25V
R2177 2.7K(J)
2SA1586-Y(TE85L)
Q2021
[TRP]
R2176 100(J)
V_MAIN_MC
604 : 1B
R2175 100(J)
R2173 2.7K(J)
C2202 100nF(Z) 25V
R2174 100(J)
V_SUB_MC
604 : 1D
2SA1586-Y(TE85L)
Q2020
R2172 100(J)
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
1 2 3 4 5 6 7 8
A B C D E F

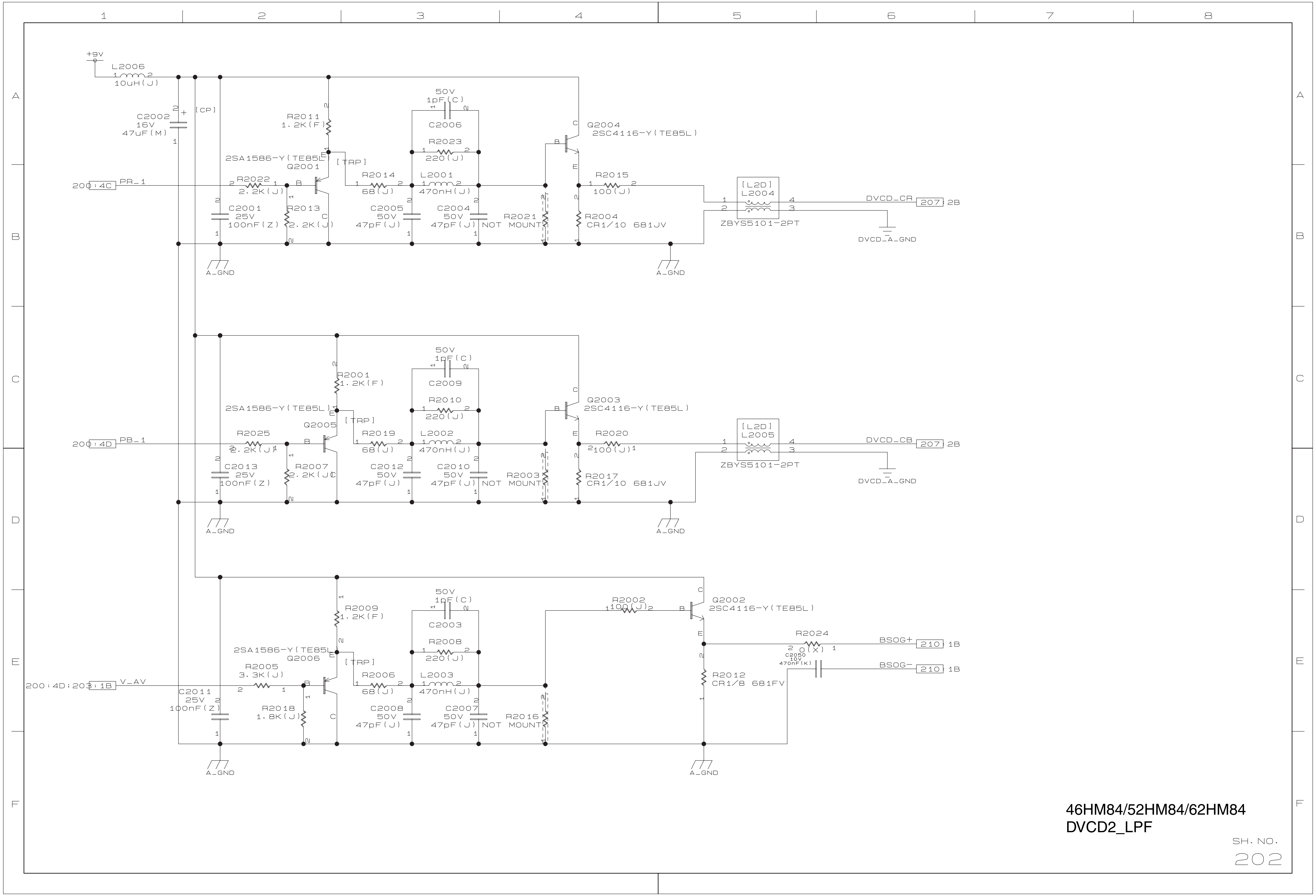
46HM84/52HM84/62HM84
AV_CONNECTOR

SH. NO.
200


+9V
L2013
10uH(J)
C2026
16V
47uF(M)
[CP]
R2070
1.2K(F)
2SA1586-Y(TE85L)
Q2014
[TRP]
50V
1pF(C)
C2031
R2084
220(J)
R2074
68(J)
L2016
470nH(J)
C2028
50V
47pF(J)
C2029
50V
47pF(J)
NOT MOUNT
R2085
Q2022
2SC4116-Y(TE85L)
R2076
0(X)
R2075
CR1/10 681JV
[L2D]
L2015
ZBYS5101-2PT
AD1_PR
205
2B
AD1_A_GND
200
4B
PR_2
R2066
390(J)
C2036
25V
100nF(Z)
R2064
1K(J)C
A_GND
W2015
A_GND
AD1_A_GND
R2068
1.2K(F)
2SA1586-Y(TE85L)
Q2012
[TRP]
50V
1pF(C)
C2037
R2090
220(J)
R2071
68(J)
L2017
470nH(J)
Q2023
2SC4116-Y(TE85L)
R2077
0(X)
[L2D]
L2014
AD1_PB
205
2C
200
4B
PB_2
R2060
390(J)
R2063
1K(J)C
C2030
25V
100nF(Z)
C2032
50V
47pF(J)
C2033
50V
47pF(J)
NOT MOUNT
R2079
R2080
CR1/10 681JV
ZBYS5101-2PT
AD1_A_GND
A_GND
R2067
1.2K(F)
2SA1586-Y(TE85L)
Q2013
[TRP]
50V
1pF(C)
C2040
R2086
220(J)
R2062
68(J)
L2018
470nH(J)
R2081
100(J)
R2069
NOT MOUNT
Q2011
NOT MOUNT
Q2015
2SC4116-Y(TE85L)
Q2024
2SC4116-Y(TE85L)
L2025
[L2D]
ZBYS5101-2PT
AD1_SOGIN
205
2C
R2089
0(X)
R2061
NOT MOUNT
ASOG+
210
1B
C2049
10V
470nF(K)
ASOG-
210
1B
R2065
NOT MOUNT
R2088
CR1/10 681JV
R2078
0(X)
[L2D]
L2012
AD1_Y
205
2B
ZBYS5101-2PT
200
4C
Y_2
R2073
390(J)
C2027
25V
100nF(Z)
R2072
1K(J)
C2039
50V
47pF(J)
C2041
50V
47pF(J)
NOT MOUNT
R2083
R2087
CR1/10 681JV
A_GND
AD1_A_GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

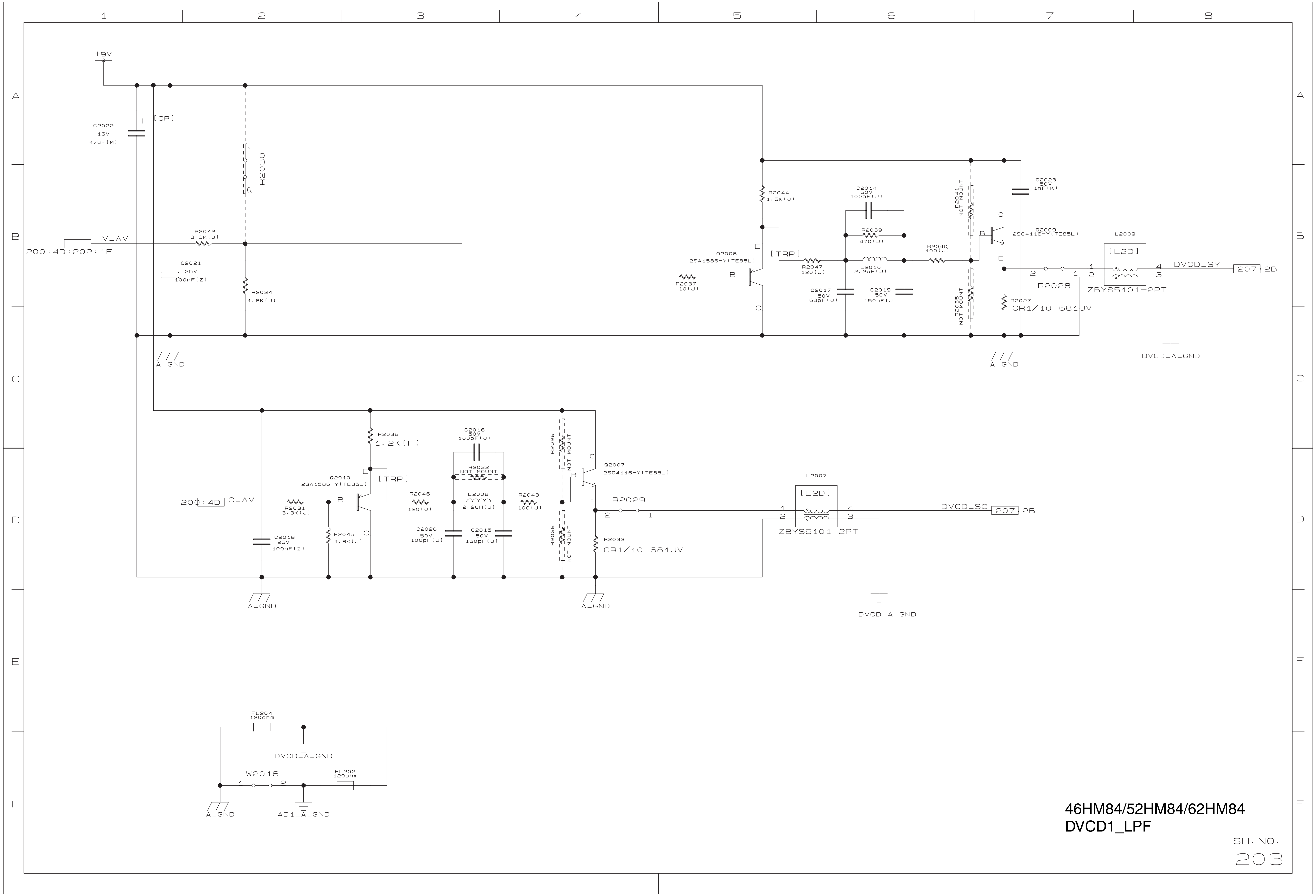
46HM84/52HM84/62HM84
AD_LPF

SH. NO.
201


+9V
L2006
10uH(J)
C2002
16V
47uF(M)
[CP]
R2011
1.2K(F)
2SA1586-Y(TE85L)
Q2001
[TRP]
R2022
2.2K(J)
200:4C
PR_1
C2001
25V
100nF(Z)
R2013
2.2K(J)
A_GND
50V
1pF(C)
C2006
R2023
220(J)
R2014
68(J)
L2001
470nH(J)
C2005
50V
47pF(J)
C2004
50V
47pF(J)
R2021
NOT MOUNT
Q2004
2SC4116-Y(TE85L)
R2015
100(J)
R2004
CR1/10 681JV
[L2D]
L2004
ZBYS5101-2PT
DVCD_CR
207
2B
DVCD_A_GND
R2001
1.2K(F)
2SA1586-Y(TE85L)
Q2005
[TRP]
R2025
2.2K(J)
200:4D
PB_1
C2013
25V
100nF(Z)
R2007
2.2K(J)
50V
1pF(C)
C2009
R2010
220(J)
R2019
68(J)
L2002
470nH(J)
C2012
50V
47pF(J)
C2010
50V
47pF(J)
R2003
NOT MOUNT
Q2003
2SC4116-Y(TE85L)
R2020
100(J)
R2017
CR1/10 681JV
[L2D]
L2005
ZBYS5101-2PT
DVCD_CB
207
2B
DVCD_A_GND
R2009
1.2K(F)
2SA1586-Y(TE85L)
Q2006
[TRP]
R2005
3.3K(J)
200:4D:203
1B
V_AV
C2011
25V
100nF(Z)
R2018
1.8K(J)
50V
1pF(C)
C2003
R2008
220(J)
R2006
68(J)
L2003
470nH(J)
C2008
50V
47pF(J)
C2007
50V
47pF(J)
R2016
NOT MOUNT
R2002
100(J)
Q2002
2SC4116-Y(TE85L)
R2024
0(X)
C2050
10V
470nF(K)
BSOG+
210
1B
BSOG-
210
1B
R2012
CR1/8 681FV
A_GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

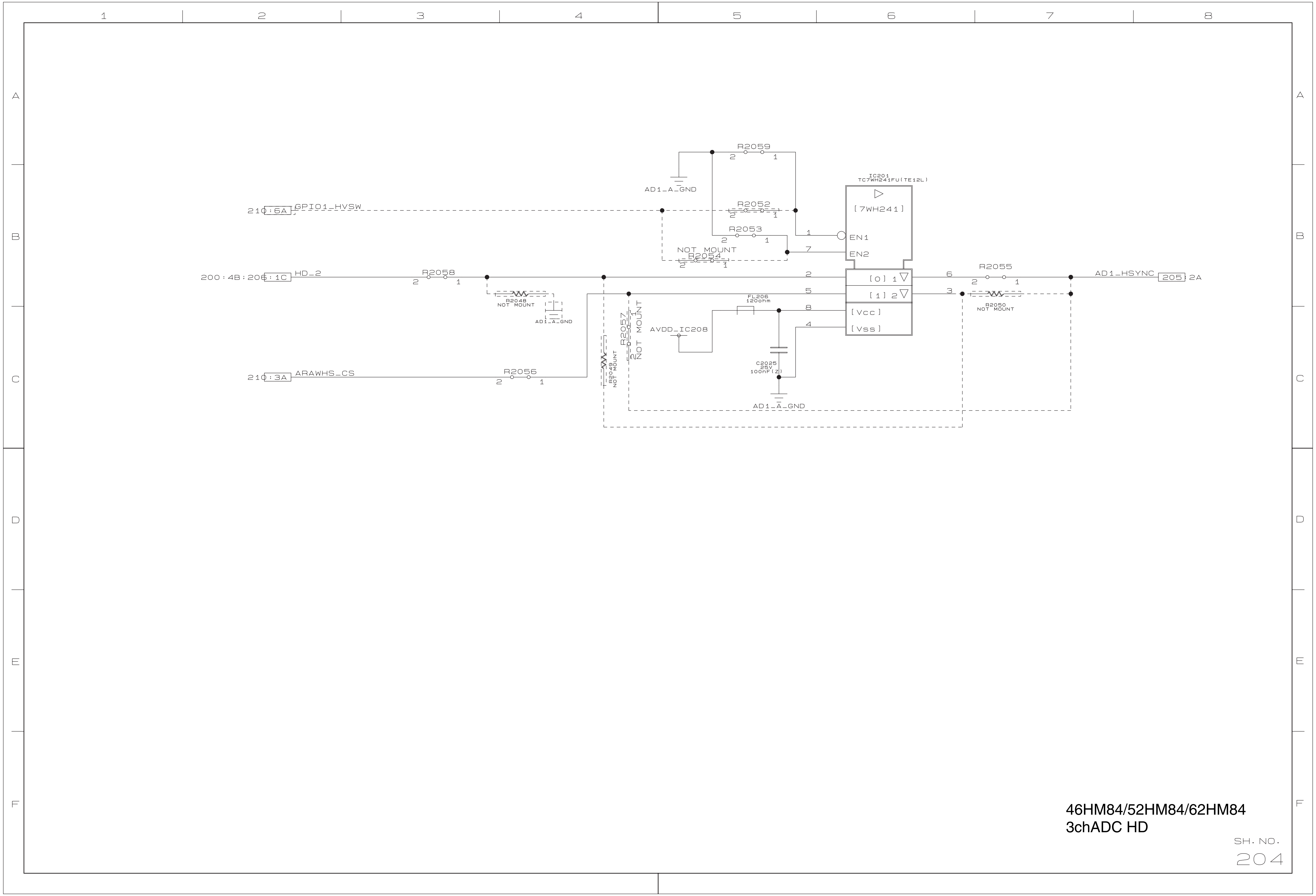
46HM84/52HM84/62HM84
DVCD2_LPF

SH. NO.
202


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+9V
C2022
16V
47uF(M)
+
[CP]
R2030
1
2
V_AV
200:4D:202:1E
R2042
3.3K(J)
C2021
25V
100nF(Z)
R2034
1.8K(J)
A_GND
R2044
1.5K(J)
Q2008
2SA1586-Y(TE85L)
E
B
C
R2037
10(J)
[TRP]
R2047
120(J)
C2014
50V
100pF(J)
R2039
470(J)
L2010
2.2uH(J)
C2017
50V
68pF(J)
C2019
50V
150pF(J)
R2040
100(J)
R2041
NOT MOUNT
R2035
NOT MOUNT
Q2009
2SC4116-Y(TE85L)
C2023
50V
1nF(K)
R2027
CR1/10 681JV
R2028
L2009
[L2D]
ZBYS5101-2PT
DVCD_SY
207:2B
DVCD_A_GND
200:4D
C_AV
R2031
3.3K(J)
R2045
1.8K(J)
C2018
25V
100nF(Z)
Q2010
2SA1586-Y(TE85L)
R2036
1.2K(F)
[TRP]
R2046
120(J)
C2016
50V
100pF(J)
R2032
NOT MOUNT
L2008
2.2uH(J)
C2020
50V
100pF(J)
C2015
50V
150pF(J)
R2043
100(J)
R2026
NOT MOUNT
R2038
NOT MOUNT
Q2007
2SC4116-Y(TE85L)
R2029
R2033
CR1/10 681JV
L2007
[L2D]
ZBYS5101-2PT
DVCD_SC
207:2B
DVCD_A_GND
FL204
120ohm
DVCD_A_GND
W2016
FL202
120ohm
A_GND
AD1_A_GND

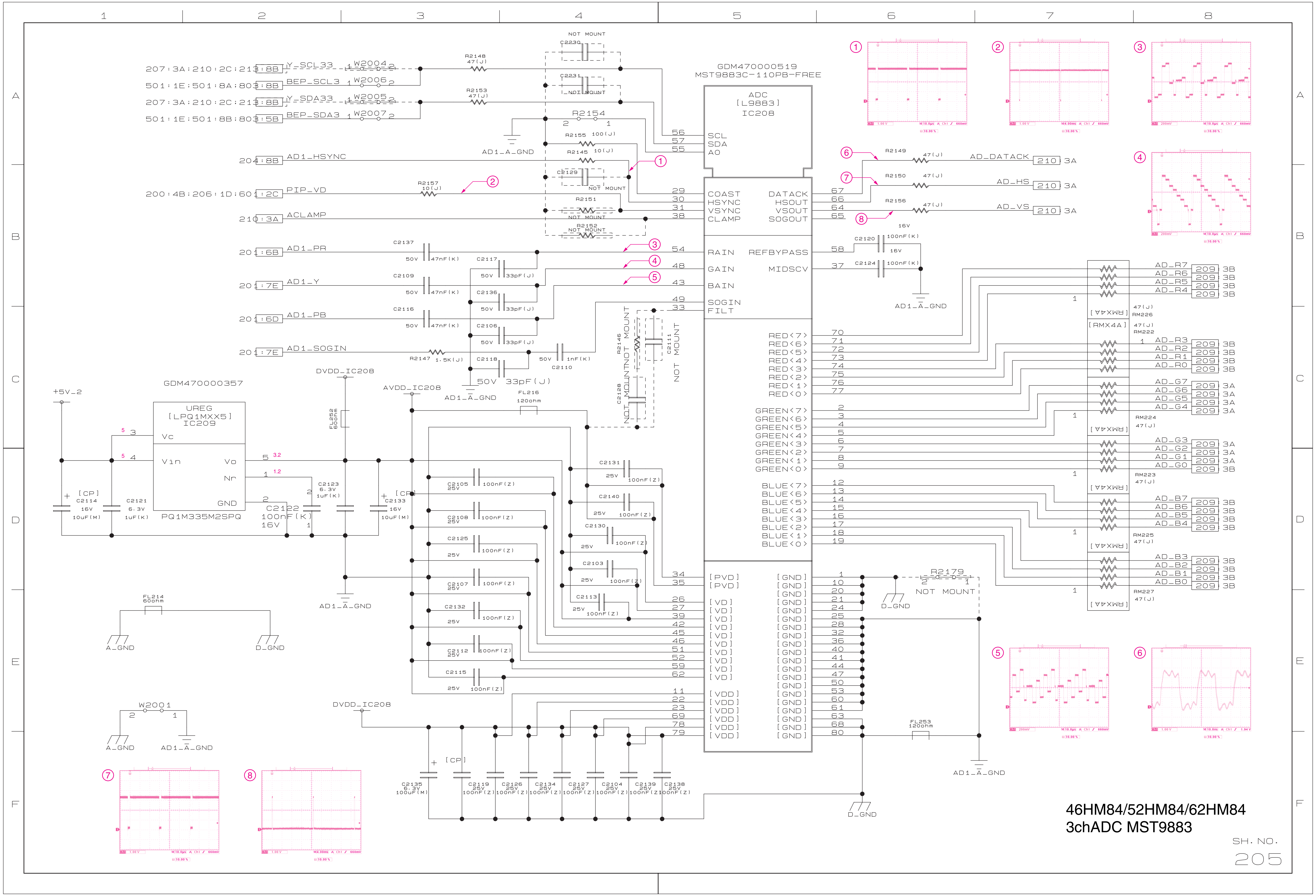
46HM84/52HM84/62HM84
DVCD1_LPF

SH. NO.
203


1
2
3
4
5
6
7
8
A
B
C
D
E
F
R2059
2
1
AD1_A_GND
IC201
TC7WH241FU(TE12L)
[7WH241]
210:6A
GPIO1_HVSW
R2052
2
1
R2053
2
1
1
EN1
NOT MOUNT
R2054
2
1
7
EN2
200:4B:206:1C
HD_2
R2058
2
1
2
[0] 1
6
R2055
2
1
AD1_HSYNC
205:2A
R2048
NOT MOUNT
AD1_A_GND
5
[1] 2
3
R2050
NOT MOUNT
FL206
120ohm
8
[Vcc]
AVDD_IC208
4
[Vss]
R2057
1
2
NOT MOUNT
C2025
25V
100nF(Z)
210:3A
ARAWHS_CS
R2056
2
1
R2049
NOT MOUNT
AD1_A_GND

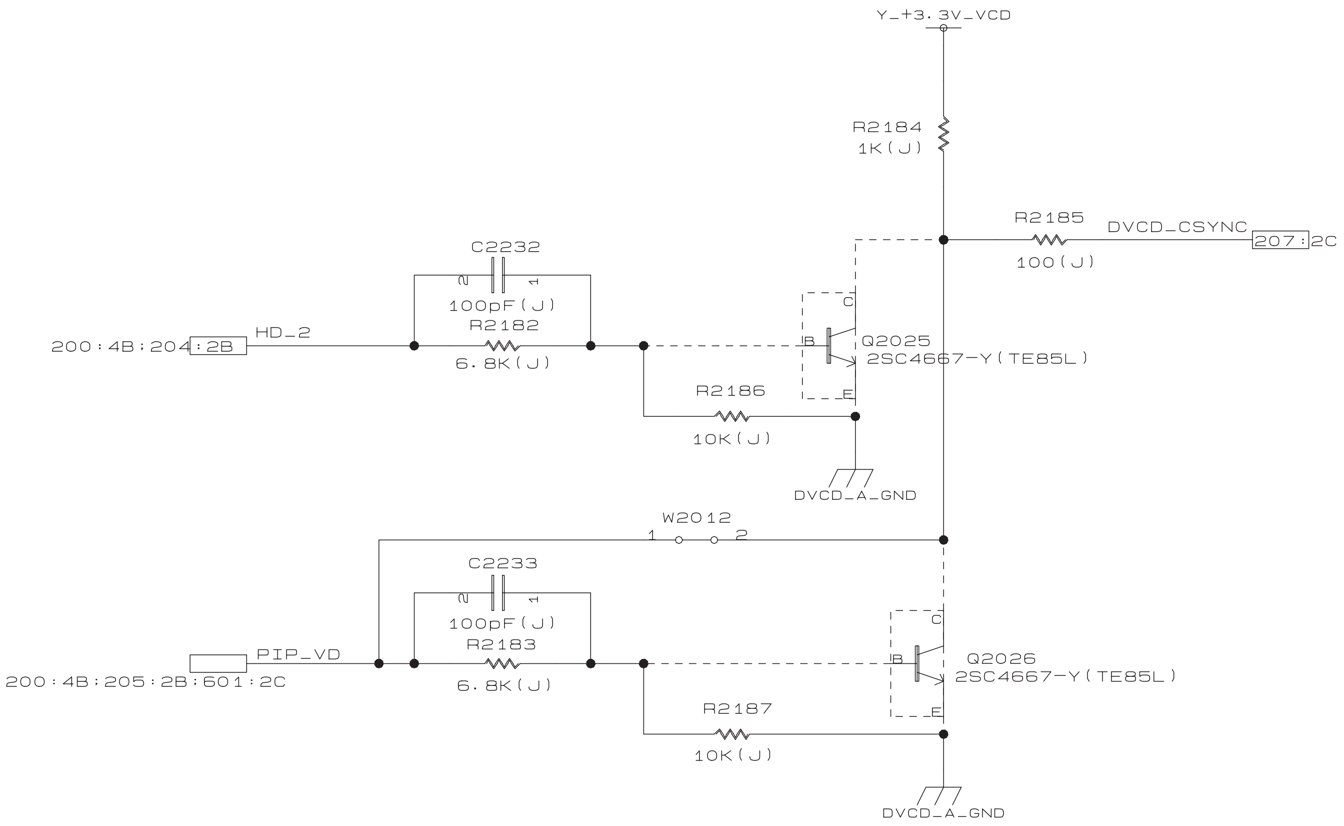
46HM84/52HM84/62HM84
3chADC HD

SH. NO.
204


GDM470000519
MST9883C-110PB-FREE
ADC
[L9883]
IC208
SCL
SDA
A0
COAST
HSYNC
VSYNC
CLAMP
DATACK
HSOUT
VSOUT
SOGOUT
RAIN
GAIN
BAIN
SOGIN
FILT
REFBYPASS
MIDSCV
RED<7>
RED<0>
GREEN<7>
GREEN<0>
BLUE<7>
BLUE<0>
[PVD]
[VD]
[VDD]
[GND]
207:3A:210:2C:213:8B Y_SCL33
501:1E:501:8A:803:8B BEP_SCL3
207:3A:210:2C:213:8B Y_SDA33
501:1E:501:8B:803:5B BEP_SDA3
204:8B AD1_HSYNC
200:4B:206:1D:601:2C PIP_VD
210:3A ACLAMP
201:6B AD1_PR
201:7E AD1_Y
201:6D AD1_PB
201:7E AD1_SOGIN
W2004
W2006
W2005
W2007
R2148 47(J)
R2153 47(J)
R2154
R2155 100(J)
R2145 10(J)
R2157 10(J)
R2151
R2152
R2147 1.5K(J)
R2149 47(J) AD_DATACK 210:3A
R2150 47(J) AD_HS 210:3A
R2156 47(J) AD_VS 210:3A
NOT MOUNT
C2230
C2231
C2129
C2137 50V 47nF(K)
C2109 50V 47nF(K)
C2116 50V 47nF(K)
C2117 50V 33pF(J)
C2136 50V 33pF(J)
C2106 50V 33pF(J)
C2118 50V 33pF(J)
C2110 50V 1nF(K)
C2120 100nF(K) 16V
C2124 100nF(K)
AD1_A_GND
D_GND
A_GND
AD_R7 … AD_R0 209:3B
AD_G7 … AD_G0 209:3A
AD_B7 … AD_B0 209:3B
RM222 RM223 RM224 RM225 RM226 RM227 47(J) [RMX4A]
GDM470000357
UREG
[LPQ1MXX5]
IC209
PQ1M335M2SPQ
Vc
Vin
Vo
Nr
GND
+5V_2
DVDD_IC208
AVDD_IC208
FL252 600ohm
FL216 120ohm
FL214 600ohm
FL253 120ohm
C2114 16V 10uF(M)
C2121 6.3V 1uF(K)
C2122 100nF(K) 16V
C2123 6.3V 1uF(K)
C2133 16V 10uF(M)
[CP]
C2105 C2108 C2125 C2107 C2132 C2112 C2115 25V 100nF(Z)
C2131 C2140 C2130 C2103 C2113 25V 100nF(Z)
C2135 6.3V 100uF(M)
C2119 C2126 C2134 C2127 C2104 C2139 C2138 25V 100nF(Z)
R2179 NOT MOUNT
W2001
① ② ③ ④ ⑤ ⑥ ⑦ ⑧
1 2 3 4 5 6 7 8
A B C D E F

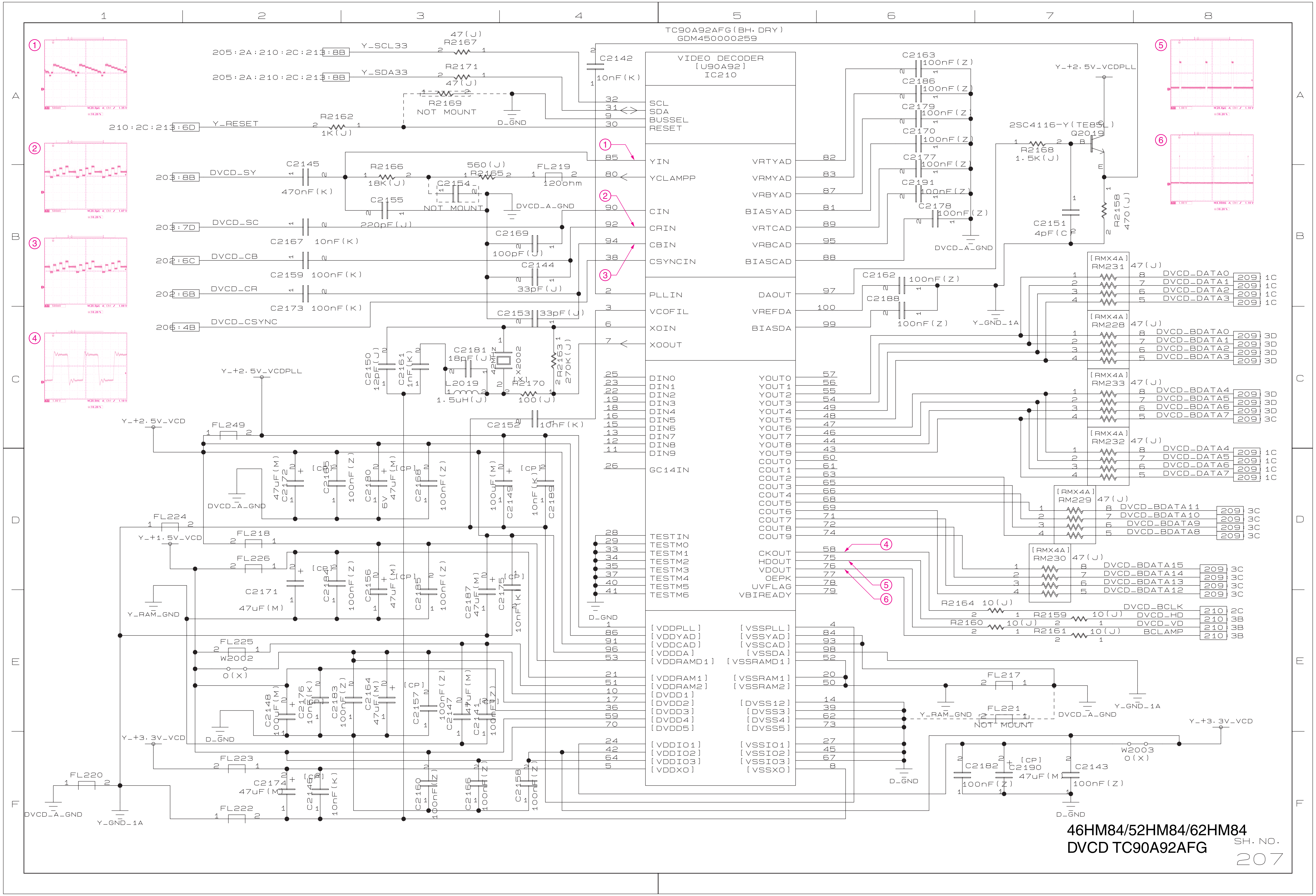
46HM84/52HM84/62HM84
3chADC MST9883

SH. NO.
205


Y_+3.3V_VCD
R2184
1K(J)
R2185
100(J)
DVCD_CSYNC
207:2C
C2232
2
1
100pF(J)
R2182
6.8K(J)
HD_2
200:4B:204:2B
C
B
E
Q2025
2SC4667-Y(TE85L)
R2186
10K(J)
DVCD_A_GND
W2012
1
2
C2233
2
1
100pF(J)
R2183
6.8K(J)
PIP_VD
200:4B:205:2B:601:2C
C
B
E
Q2026
2SC4667-Y(TE85L)
R2187
10K(J)
DVCD_A_GND

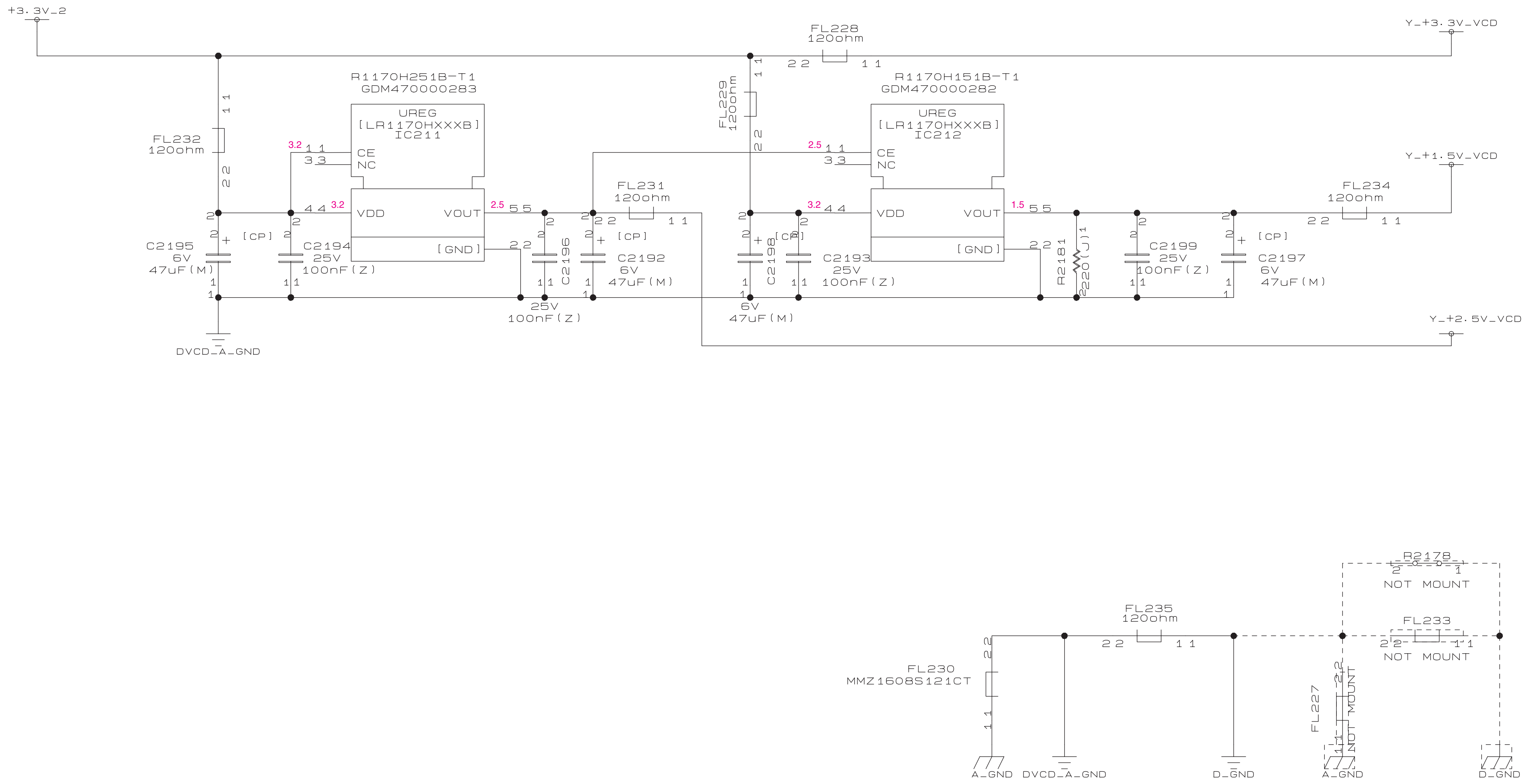
46HM84/52HM84/62HM84
DVCD CSYNCIN

SH. NO.
206


TC90A92AFG(BH,DRY)
GDM450000259
VIDEO DECODER
[U90A92]
IC210
SCL
SDA
BUSSEL
RESET
YIN
YCLAMPP
CIN
CRIN
CBIN
CSYNCIN
PLLIN
VCOFIL
XOIN
XOOUT
VRTYAD
VRMYAD
VRBYAD
BIASYAD
VRTCAD
VRBCAD
BIASCAD
DAOUT
VREFDA
BIASDA
DIN0
DIN1
DIN2
DIN3
DIN4
DIN5
DIN6
DIN7
DIN8
DIN9
GC14IN
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
YOUT8
YOUT9
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
COUT8
COUT9
TESTIN
TESTM0
TESTM1
TESTM2
TESTM3
TESTM4
TESTM5
TESTM6
CKOUT
HDOUT
VDOUT
OEPK
UVFLAG
VBIREADY
[VDDPLL]
[VDDYAD]
[VDDCAD]
[VDDA]
[VDDRAMD1]
[VDDRAM1]
[VDDRAM2]
[DVDD1]
[DVDD2]
[DVDD3]
[DVDD4]
[DVDD5]
[VDDIO1]
[VDDIO2]
[VDDIO3]
[VDDXO]
[VSSPLL]
[VSSYAD]
[VSSCAD]
[VSSDA]
[VSSRAMD1]
[VSSRAM1]
[VSSRAM2]
[DVSS12]
[DVSS3]
[DVSS4]
[DVSS5]
[VSSIO1]
[VSSIO2]
[VSSIO3]
[VSSXO]
205:2A:210:2C:213:8B
Y_SCL33
205:2A:210:2C:213:8B
Y_SDA33
210:2C:213:6D
Y_RESET
R2167 47(J)
R2171 47(J)
R2169 NOT MOUNT
R2162 1K(J)
D_GND
C2142 10nF(K)
203:8B DVCD_SY
C2145 470nF(K)
R2166 18K(J)
R2165 560(J)
FL219 120ohm
C2154 NOT MOUNT
C2155 220pF(J)
DVCD_A_GND
203:7D DVCD_SC
C2167 10nF(K)
C2169 100pF(J)
202:6C DVCD_CB
C2159 100nF(K)
C2144 33pF(J)
202:6B DVCD_CR
C2173 100nF(K)
206:4B DVCD_CSYNC
C2153 33pF(J)
C2150 12pF(J)
C2161 1nF(K)
C2181 18pF(J)
X2002 42MHz
R2163 270K(J)
L2019 1.5uH(J)
R2170 100(J)
C2152 10nF(K)
Y_+2.5V_VDCPLL
Y_+2.5V_VDCD
FL249
C2172 47uF(M)
C2165 100nF(Z)
C2180 47uF(M) 6V
C2168 100nF(Z)
C2149 100uF(M)
C2189 10nF(K)
[CP]
DVCD_A_GND
FL224
Y_+1.5V_VDCD
FL218
FL226
C2171 47uF(M)
C2184 100nF(Z)
C2156 47uF(M)
C2185 100nF(Z)
C2187 47uF(M)
C2175 10nF(K)
Y_RAM_GND
FL225
W2002 0(X)
C2148 100uF(M)
C2176 10nF(K)
C2183 100nF(Z)
C2164 47uF(M)
C2157 100nF(Z)
C2147 47uF(M)
C2141 100nF(Z)
D_GND
Y_+3.3V_VDCD
FL223
FL220
C2174 47uF(M)
C2146 10nF(K)
C2160 100nF(Z)
C2166 100nF(Z)
C2158 100nF(Z)
FL222
DVCD_A_GND
Y_GND_1A
C2163 100nF(Z)
C2186 100nF(Z)
C2179 100nF(Z)
C2170 100nF(Z)
C2177 100nF(Z)
C2191 100nF(Z)
C2178 100nF(Z)
DVCD_A_GND
Y_+2.5V_VDCPLL
2SC4116-Y(TE85L)
Q2019
R2168 1.5K(J)
C2151 4pF(C)
R2158 470(J)
C2162 100nF(Z)
C2188 100nF(Z)
Y_GND_1A
[RMX4A] RM231 47(J)
DVCD_DATA0
DVCD_DATA1
DVCD_DATA2
DVCD_DATA3
209:1C
[RMX4A] RM228 47(J)
DVCD_BDATA0
DVCD_BDATA1
DVCD_BDATA2
DVCD_BDATA3
209:3D
[RMX4A] RM233 47(J)
DVCD_BDATA4
DVCD_BDATA5
DVCD_BDATA6
DVCD_BDATA7
209:3D
209:3C
[RMX4A] RM232 47(J)
DVCD_DATA4
DVCD_DATA5
DVCD_DATA6
DVCD_DATA7
209:1C
[RMX4A] RM229 47(J)
DVCD_BDATA11
DVCD_BDATA10
DVCD_BDATA9
DVCD_BDATA8
209:3C
[RMX4A] RM230 47(J)
DVCD_BDATA15
DVCD_BDATA14
DVCD_BDATA13
DVCD_BDATA12
209:3C
R2164 10(J)
DVCD_BCLK 210:2C
R2159 10(J)
DVCD_HD 210:3B
R2160 10(J)
DVCD_VD 210:3B
R2161 10(J)
BCLAMP 210:3B
FL217
FL221 NOT MOUNT
Y_RAM_GND
DVCD_A_GND
Y_GND_1A
Y_+3.3V_VCD
W2003 0(X)
C2182 100nF(Z)
C2190 47uF(M) [CP]
C2143 100nF(Z)
D_GND
① ② ③ ④ ⑤ ⑥
1 2 3 4 5 6 7 8
A B C D E F

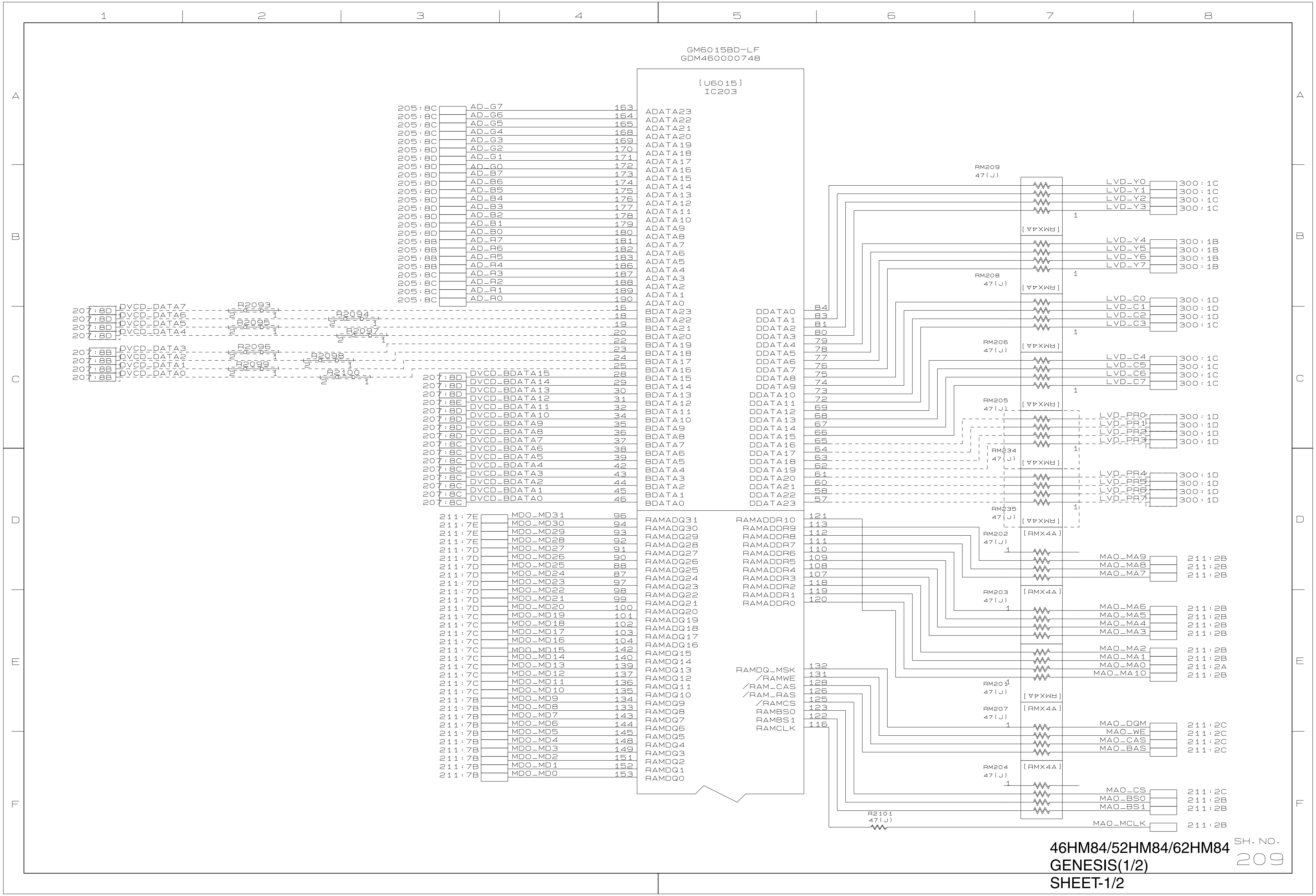
46HM84/52HM84/62HM84
DVCD TC90A92AFG

SH. NO.
207


+3.3V_2
Y_+3.3V_VCD
Y_+1.5V_VCD
Y_+2.5V_VCD
FL228
120ohm
FL229
120ohm
FL232
120ohm
FL231
120ohm
FL234
120ohm
R1170H251B-T1
GDM470000283
UREG
[LR1170HXXXB]
IC211
R1170H151B-T1
GDM470000282
UREG
[LR1170HXXXB]
IC212
CE
NC
VDD
VOUT
[GND]
3.2
2.5
1.5
C2195
6V
47uF(M)
C2194
25V
100nF(Z)
C2196
25V
100nF(Z)
C2192
6V
47uF(M)
C2198
6V
47uF(M)
C2193
25V
100nF(Z)
R2181
220(J)
C2199
25V
100nF(Z)
C2197
6V
47uF(M)
[CP]
DVCD_A_GND
R2178
NOT MOUNT
FL235
120ohm
FL233
NOT MOUNT
FL230
MMZ1608S121CT
FL227
NOT MOUNT
A_GND
DVCD_A_GND
D_GND
A_GND
D_GND

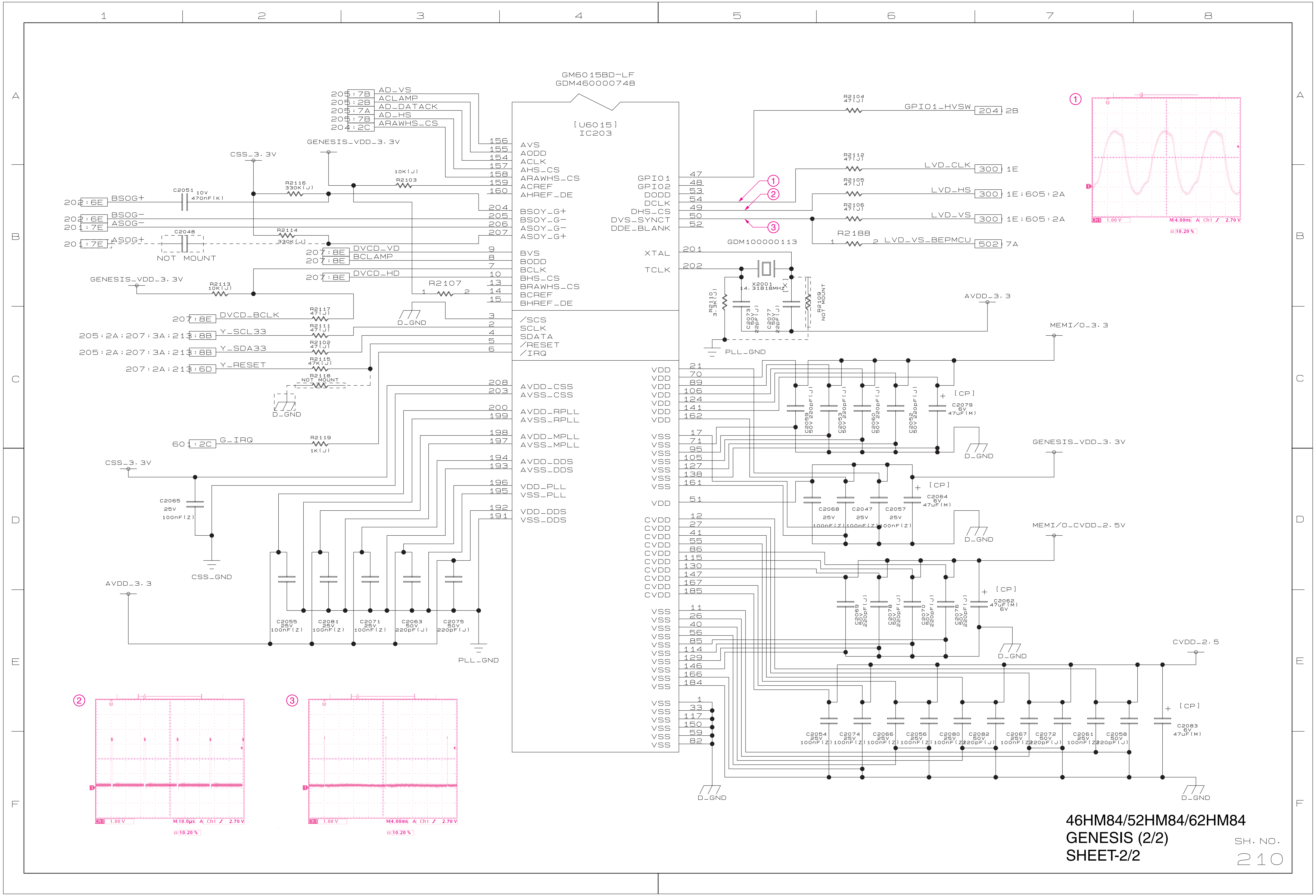
46HM84/52HM84/62HM84
DVCD POWER

SH. NO.
208


1 2 3 4 5 6 7 8
A B C D E F
GM6015BD-LF
GDM460000748
[U6015]
IC203
205:8C AD_G7 163 ADATA23
205:8C AD_G6 164 ADATA22
205:8C AD_G5 165 ADATA21
205:8C AD_G4 168 ADATA20
205:8C AD_G3 169 ADATA19
205:8D AD_G2 170 ADATA18
205:8D AD_G1 171 ADATA17
205:8D AD_G0 172 ADATA16
205:8D AD_B7 173 ADATA15
205:8D AD_B6 174 ADATA14
205:8D AD_B5 175 ADATA13
205:8D AD_B4 176 ADATA12
205:8D AD_B3 177 ADATA11
205:8D AD_B2 178 ADATA10
205:8D AD_B1 179 ADATA9
205:8D AD_B0 180 ADATA8
205:8B AD_R7 181 ADATA7
205:8B AD_R6 182 ADATA6
205:8B AD_R5 183 ADATA5
205:8B AD_R4 186 ADATA4
205:8C AD_R3 187 ADATA3
205:8C AD_R2 188 ADATA2
205:8C AD_R1 189 ADATA1
205:8C AD_R0 190 ADATA0
207:8D DVCD_DATA7 R2093 16 BDATA23
207:8D DVCD_DATA6 R2094 18 BDATA22
207:8D DVCD_DATA5 R2095 19 BDATA21
207:8D DVCD_DATA4 R2097 20 BDATA20
22 BDATA19
207:8B DVCD_DATA3 R2096 23 BDATA18
207:8B DVCD_DATA2 R2098 24 BDATA17
207:8B DVCD_DATA1 R2099 25 BDATA16
207:8B DVCD_DATA0 R2100
207:8D DVCD_BDATA15 28 BDATA15
207:8D DVCD_BDATA14 29 BDATA14
207:8D DVCD_BDATA13 30 BDATA13
207:8E DVCD_BDATA12 31 BDATA12
207:8D DVCD_BDATA11 32 BDATA11
207:8D DVCD_BDATA10 34 BDATA10
207:8D DVCD_BDATA9 35 BDATA9
207:8D DVCD_BDATA8 36 BDATA8
207:8C DVCD_BDATA7 37 BDATA7
207:8C DVCD_BDATA6 38 BDATA6
207:8C DVCD_BDATA5 39 BDATA5
207:8C DVCD_BDATA4 42 BDATA4
207:8C DVCD_BDATA3 43 BDATA3
207:8C DVCD_BDATA2 44 BDATA2
207:8C DVCD_BDATA1 45 BDATA1
207:8C DVCD_BDATA0 46 BDATA0
DDATA0 84
DDATA1 83
DDATA2 81
DDATA3 80
DDATA4 79
DDATA5 78
DDATA6 77
DDATA7 76
DDATA8 75
DDATA9 74
DDATA10 73
DDATA11 72
DDATA12 69
DDATA13 68
DDATA14 67
DDATA15 66
DDATA16 65
DDATA17 64
DDATA18 63
DDATA19 62
DDATA20 61
DDATA21 60
DDATA22 58
DDATA23 57
RM209 47(J) [RMX4A]
LVD_Y0 300:1C
LVD_Y1 300:1C
LVD_Y2 300:1C
LVD_Y3 300:1C
LVD_Y4 300:1B
LVD_Y5 300:1B
LVD_Y6 300:1B
LVD_Y7 300:1B
RM208 47(J) [RMX4A]
LVD_C0 300:1D
LVD_C1 300:1D
LVD_C2 300:1D
LVD_C3 300:1C
RM206 47(J) [RMX4A]
LVD_C4 300:1C
LVD_C5 300:1C
LVD_C6 300:1C
LVD_C7 300:1C
RM205 47(J) [RMX4A]
LVD_PR0 300:1D
LVD_PR1 300:1D
LVD_PR2 300:1D
LVD_PR3 300:1D
RM234 47(J) [RMX4A]
LVD_PR4 300:1D
LVD_PR5 300:1D
LVD_PR6 300:1D
LVD_PR7 300:1D
RM235 47(J) [RMX4A]
211:7E MD0_MD31 96 RAMADQ31
211:7E MD0_MD30 94 RAMADQ30
211:7E MD0_MD29 93 RAMADQ29
211:7E MD0_MD28 92 RAMADQ28
211:7D MD0_MD27 91 RAMADQ27
211:7D MD0_MD26 90 RAMADQ26
211:7D MD0_MD25 88 RAMADQ25
211:7D MD0_MD24 87 RAMADQ24
211:7D MD0_MD23 97 RAMADQ23
211:7D MD0_MD22 98 RAMADQ22
211:7D MD0_MD21 99 RAMADQ21
211:7D MD0_MD20 100 RAMADQ20
211:7C MD0_MD19 101 RAMADQ19
211:7C MD0_MD18 102 RAMADQ18
211:7C MD0_MD17 103 RAMADQ17
211:7C MD0_MD16 104 RAMADQ16
211:7C MD0_MD15 142 RAMDQ15
211:7C MD0_MD14 140 RAMDQ14
211:7C MD0_MD13 139 RAMDQ13
211:7C MD0_MD12 137 RAMDQ12
211:7C MD0_MD11 136 RAMDQ11
211:7C MD0_MD10 135 RAMDQ10
211:7B MD0_MD9 134 RAMDQ9
211:7B MD0_MD8 133 RAMDQ8
211:7B MD0_MD7 143 RAMDQ7
211:7B MD0_MD6 144 RAMDQ6
211:7B MD0_MD5 145 RAMDQ5
211:7B MD0_MD4 148 RAMDQ4
211:7B MD0_MD3 149 RAMDQ3
211:7B MD0_MD2 151 RAMDQ2
211:7B MD0_MD1 152 RAMDQ1
211:7B MD0_MD0 153 RAMDQ0
RAMADDR10 121
RAMADDR9 113
RAMADDR8 112
RAMADDR7 111
RAMADDR6 110
RAMADDR5 109
RAMADDR4 108
RAMADDR3 107
RAMADDR2 118
RAMADDR1 119
RAMADDR0 120
RM202 47(J) [RMX4A]
MA0_MA9 211:2B
MA0_MA8 211:2B
MA0_MA7 211:2B
RM203 47(J) [RMX4A]
MA0_MA6 211:2B
MA0_MA5 211:2B
MA0_MA4 211:2B
MA0_MA3 211:2B
MA0_MA2 211:2B
MA0_MA1 211:2B
MA0_MA0 211:2A
MA0_MA10 211:2B
RAMDQ_MSK 132
/RAMWE 131
/RAM_CAS 128
/RAM_RAS 126
/RAMCS 125
RAMBS0 123
RAMBS1 122
RAMCLK 116
RM201 47(J) [RMX4A]
RM207 47(J) [RMX4A]
MA0_DQM 211:2C
MA0_WE 211:2C
MA0_CAS 211:2C
MA0_BAS 211:2C
RM204 47(J) [RMX4A]
MA0_CS 211:2C
MA0_BS0 211:2B
MA0_BS1 211:2B
R2101 47(J)
MA0_MCLK 211:2B

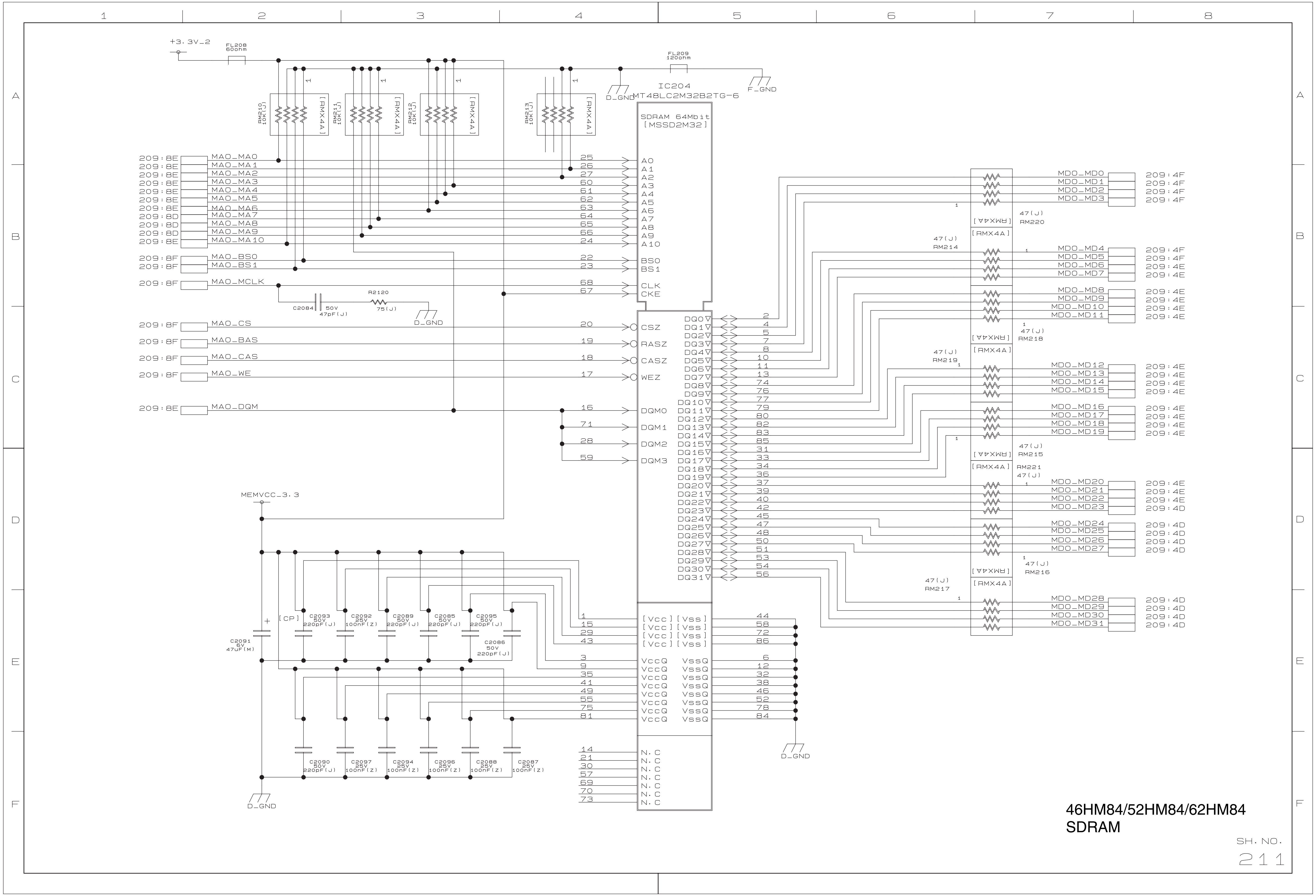
46HM84/52HM84/62HM84
GENESIS(1/2)
SHEET-1/2

SH. NO.
209


GM6015BD-LF
GDM460000748
[U6015]
IC203
AVS
AODD
ACLK
AHS_CS
ARAWHS_CS
ACREF
AHREF_DE
BSOY_G+
BSOY_G-
ASOY_G-
ASOY_G+
BVS
BODD
BCLK
BHS_CS
BRAWHS_CS
BCREF
BHREF_DE
/SCS
SCLK
SDATA
/RESET
/IRQ
AVDD_CSS
AVSS_CSS
AVDD_RPLL
AVSS_RPLL
AVDD_MPLL
AVSS_MPLL
AVDD_DDS
AVSS_DDS
VDD_PLL
VSS_PLL
VDD_DDS
VSS_DDS
GPIO1
GPIO2
DODD
DCLK
DHS_CS
DVS_SYNCT
DDE_BLANK
XTAL
TCLK
VDD
VSS
CVDD
205:7B AD_VS
205:2B ACLAMP
205:7A AD_DATACK
205:7B AD_HS
204:2C ARAWHS_CS
GENESIS_VDD_3.3V
CSS_3.3V
202:6E BSOG+
202:6E BSOG-
201:7E ASOG-
201:7E ASOG+
C2051 10V 470nF(K)
R2116 330K(J)
R2103 10K(J)
C2048
R2114 330K(J)
NOT MOUNT
207:8E DVCD_VD
207:8E BCLAMP
207:8E DVCD_HD
R2113 10K(J)
R2107
207:8E DVCD_BCLK
205:2A:207:3A:213:8B Y_SCL33
205:2A:207:3A:213:8B Y_SDA33
207:2A:213:6D Y_RESET
R2117 47(J)
R2111 47(J)
R2102 47(J)
R2115 47K(J)
R2118 NOT MOUNT
D_GND
601:2C G_IRQ
R2119 1K(J)
C2065 25V 100nF(Z)
CSS_GND
AVDD_3.3
C2055 25V 100nF(Z)
C2081 25V 100nF(Z)
C2071 25V 100nF(Z)
C2063 50V 220pF(J)
C2075 50V 220pF(J)
PLL_GND
R2104 47(J) GPIO1_HVSW 204 2B
R2112 47(J) LVD_CLK 300 1E
R2105 47(J) LVD_HS 300 1E:605:2A
R2106 47(J) LVD_VS 300 1E:605:2A
R2188 LVD_VS_BEPMCU 502 7A
GDM100000113
X2001 14.31818MHz
R2110 3.3K(J)
C2073 50V 22pF(J)
C2077 50V 22pF(J)
R2109 NOT MOUNT
AVDD_3.3
MEMI/O_3.3
C2059 50V 220pF(J)
C2053 50V 220pF(J)
C2060 50V 220pF(J)
C2052 50V 220pF(J)
[CP] C2079 6V 47uF(M)
GENESIS_VDD_3.3V
C2068 25V 100nF(Z)
C2047 25V 100nF(Z)
C2057 25V 100nF(Z)
[CP] C2064 6V 47uF(M)
MEMI/O_CVDD_2.5V
C2069 50V 220pF(J)
C2078 50V 220pF(J)
C2070 50V 220pF(J)
C2076 50V 220pF(J)
[CP] C2062 47uF(M) 6V
CVDD_2.5
C2054 25V 100nF(Z)
C2074 25V 100nF(Z)
C2066 25V 100nF(Z)
C2056 25V 100nF(Z)
C2080 25V 100nF(Z)
C2082 50V 220pF(J)
C2067 25V 100nF(Z)
C2072 50V 220pF(J)
C2061 25V 100nF(Z)
C2058 50V 220pF(J)
[CP] C2083 6V 47uF(M)
①
②
③
Ch1 1.00 V M 4.00ms A Ch1 2.70 V 10.20 %
Ch1 1.00 V M 10.0μs A Ch1 2.70 V 10.20 %
Ch1 1.00 V M 4.00ms A Ch1 2.70 V 10.20 %
1 2 3 4 5 6 7 8
A B C D E F

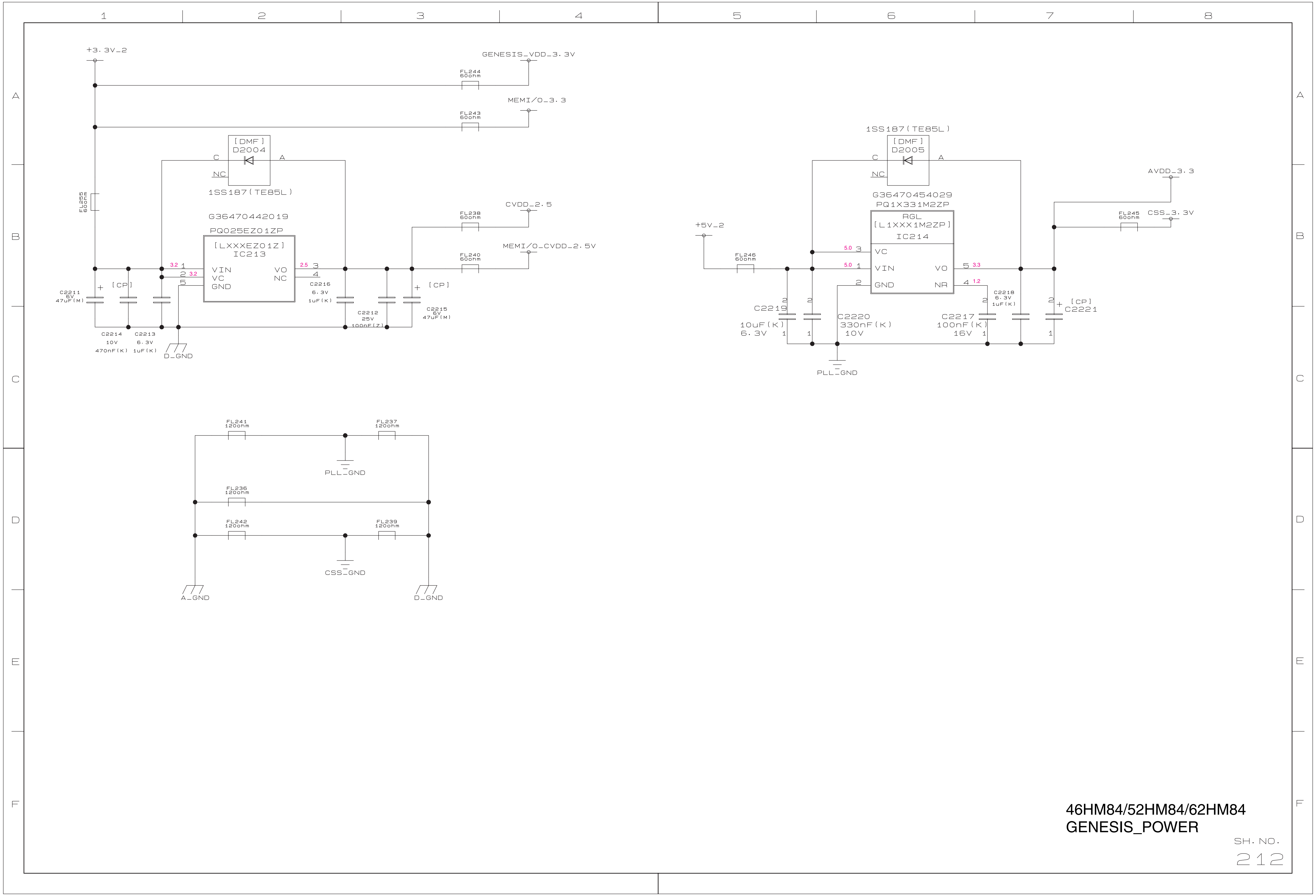
46HM84/52HM84/62HM84
GENESIS (2/2)
SHEET-2/2

SH. NO.
210


+3.3V_2
FL208
60ohm
FL209
120ohm
D_GND
F_GND
IC204
MT48LC2M32B2TG-6
SDRAM 64Mbit
[MSSD2M32]
RM210 10K(J) [RMX4A]
RM211 10K(J) [RMX4A]
RM212 10K(J) [RMX4A]
RM213 10K(J) [RMX4A]
209:8E MAO_MA0
209:8E MAO_MA1
209:8E MAO_MA2
209:8E MAO_MA3
209:8E MAO_MA4
209:8E MAO_MA5
209:8E MAO_MA6
209:8D MAO_MA7
209:8D MAO_MA8
209:8D MAO_MA9
209:8E MAO_MA10
209:8F MAO_BS0
209:8F MAO_BS1
209:8F MAO_MCLK
C2084 50V 47pF(J)
R2120 75(J)
209:8F MAO_CS
209:8F MAO_BAS
209:8F MAO_CAS
209:8F MAO_WE
209:8E MAO_DQM
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10
BS0 BS1 CLK CKE
CSZ RASZ CASZ WEZ
DQM0 DQM1 DQM2 DQM3
DQ0–DQ31
MDO_MD0 – MDO_MD31
209:4F
209:4E
209:4D
47(J) RM214 RM215 RM216 RM217 RM218 RM219 RM220 RM221 [RMX4A]
MEMVCC_3.3
C2091 6V 47uF(M)
[CP]
C2093 50V 220pF(J)
C2092 25V 100nF(Z)
C2089 50V 220pF(J)
C2085 50V 220pF(J)
C2095 50V 220pF(J)
C2086 50V 220pF(J)
C2090 50V 220pF(J)
C2097 25V 100nF(Z)
C2094 25V 100nF(Z)
C2096 25V 100nF(Z)
C2088 25V 100nF(Z)
C2087 25V 100nF(Z)
[Vcc] [Vss]
VccQ VssQ
N.C
D_GND

46HM84/52HM84/62HM84
SDRAM

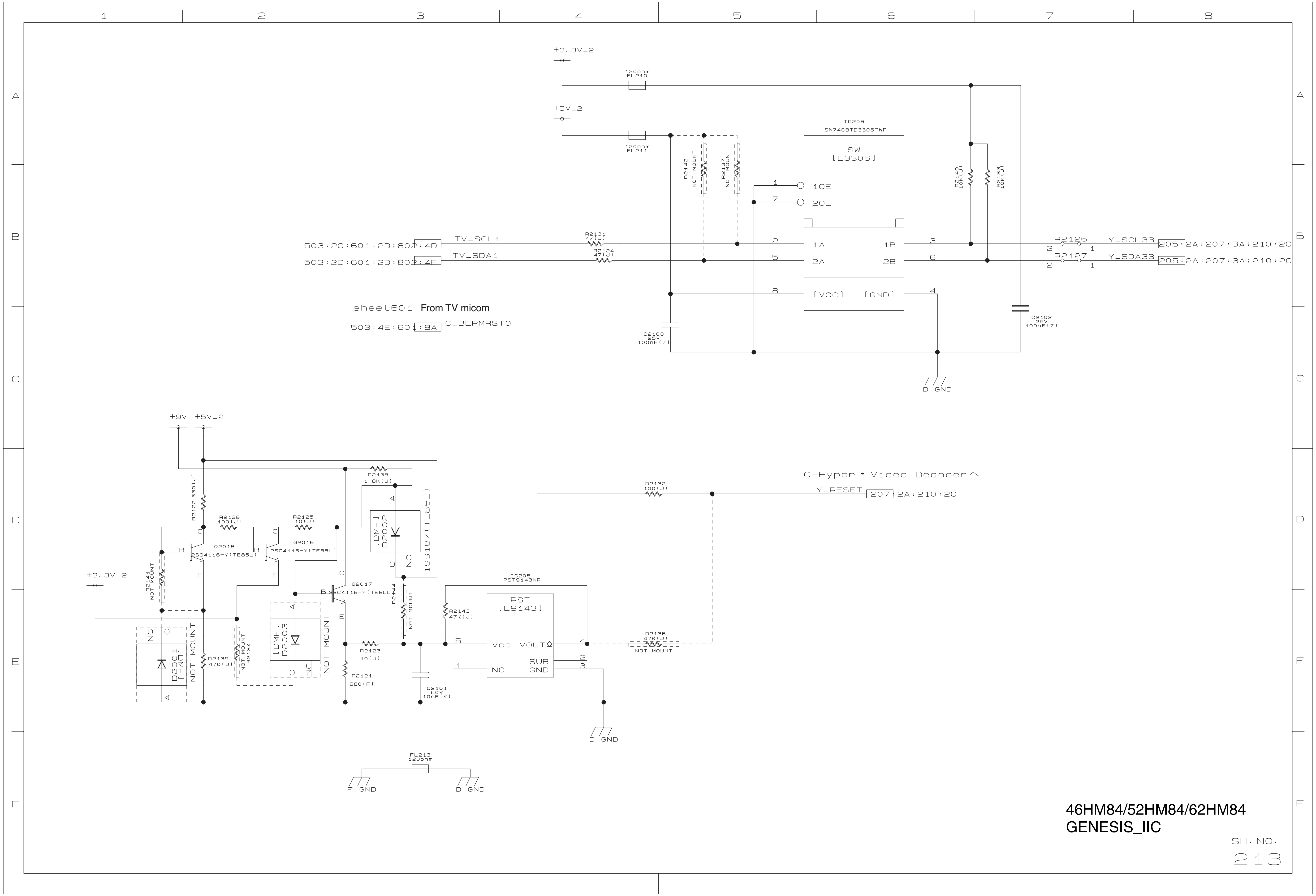
SH. NO.
211



+3.3V_2
GENESIS_VDD_3.3V
FL244 60ohm
MEMI/O_3.3
FL243 60ohm
[DMF] D2004
C
A
NC
1SS187(TE85L)
FL255 60ohm
G36470442019
PQ025EZ01ZP
[LXXXEZ01Z] IC213
VIN
VC
GND
VO
NC
3.2
3.2
2.5
CVDD_2.5
FL238 60ohm
MEMI/O_CVDD_2.5V
FL240 60ohm
C2211 6V 47uF(M)
[CP]
C2214 10V 470nF(K)
C2213 6.3V 1uF(K)
D_GND
C2216 6.3V 1uF(K)
C2212 25V 100nF(Z)
C2215 6V 47uF(M)
1SS187(TE85L)
[DMF] D2005
G36470454029
PQ1X331M2ZP
RGL [L1XXX1M2ZP] IC214
VC
VIN
GND
VO
NR
5.0
5.0
3.3
1.2
+5V_2
FL246 60ohm
AVDD_3.3
CSS_3.3V
FL245 60ohm
C2219 10uF(K) 6.3V
C2220 330nF(K) 10V
C2217 100nF(K) 16V
C2218 6.3V 1uF(K)
[CP] C2221
PLL_GND
FL241 120ohm
FL237 120ohm
PLL_GND
FL236 120ohm
FL242 120ohm
FL239 120ohm
CSS_GND
A_GND
D_GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

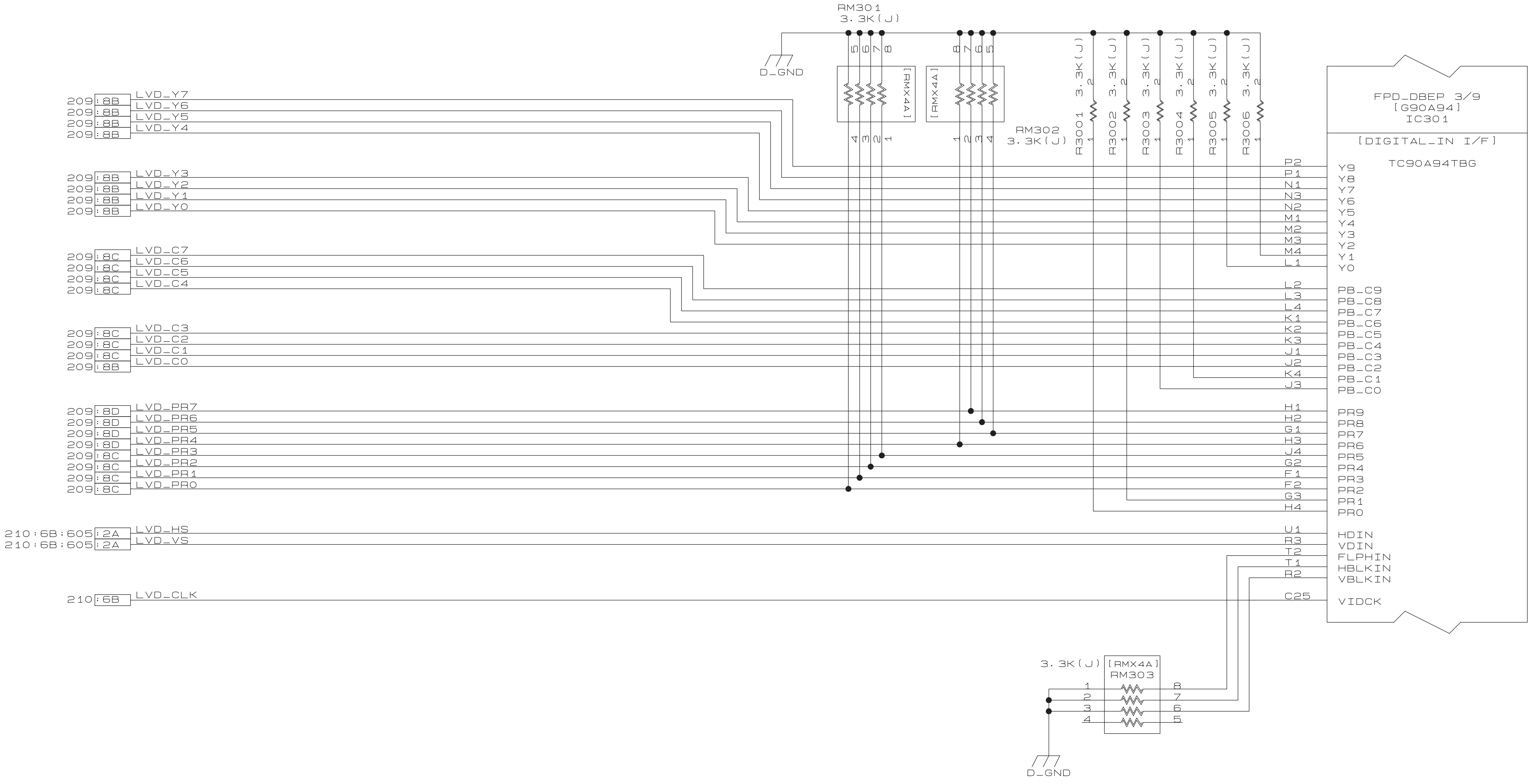
46HM84/52HM84/62HM84
GENESIS_POWER

SH. NO.
212


+3.3V_2
120ohm FL210
+5V_2
120ohm FL211
IC206
SN74CBTD3306PWR
SW [L3306]
1OE
2OE
1A
1B
2A
2B
[VCC]
[GND]
R2142 NOT MOUNT
R2137 NOT MOUNT
R2140 10K(J)
R2133 10K(J)
TV_SCL1
TV_SDA1
503:2C:601:2D:802:4D
503:2D:601:2D:802:4E
R2131 47(J)
R2124 47(J)
R2126
R2127
Y_SCL33
Y_SDA33
205:2A:207:3A:210:2C
C2100 25V 100nF(Z)
C2102 25V 100nF(Z)
D_GND
sheet601
From TV micom
503:4E:601:8A
C_BEPMRST0
+9V
+5V_2
R2122 330(J)
R2135 1.8K(J)
R2138 100(J)
R2125 10(J)
Q2018 2SC4116-Y(TE85L)
Q2016 2SC4116-Y(TE85L)
Q2017 2SC4116-Y(TE85L)
[DMF] D2002
1SS187(TE85L)
+3.3V_2
R2141 NOT MOUNT
R2144 NOT MOUNT
R2134 NOT MOUNT
[DMF] D2001 NOT MOUNT
[DMF] D2003 NOT MOUNT
R2139 470(J)
R2123 10(J)
R2121 680(F)
C2101 50V 10nF(K)
R2143 47K(J)
IC205
PST9143NR
RST [L9143]
Vcc
VOUT
NC
SUB
GND
R2132 100(J)
G-Hyper・Video Decoderへ
Y_RESET
207 2A:210:2C
R2136 47K(J) NOT MOUNT
FL213 120ohm
F_GND
D_GND

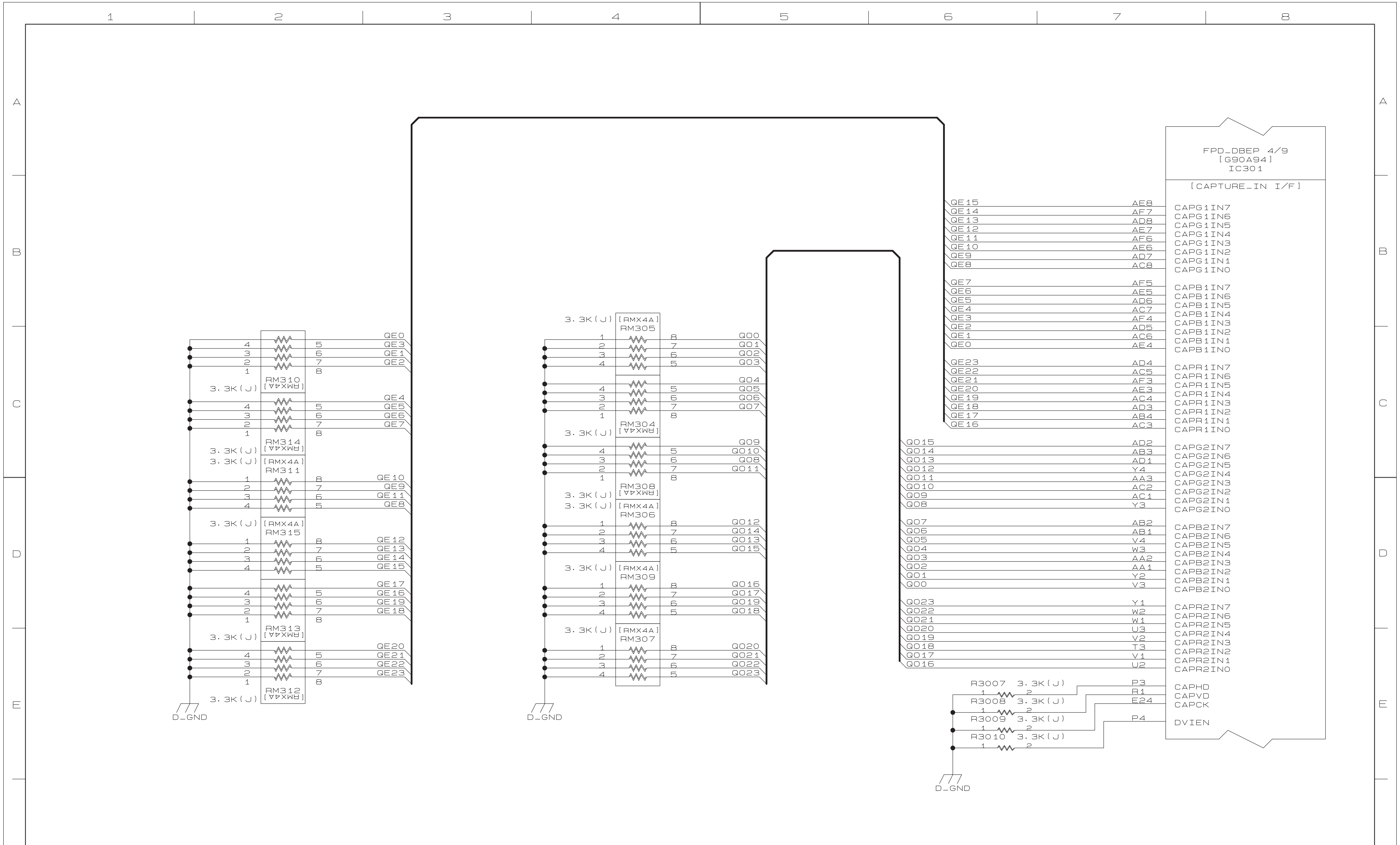
46HM84/52HM84/62HM84
GENESIS_IIC

SH. NO.
213


RM301
3.3K(J)
D_GND
[RMX4A]
RM302
3.3K(J)
R3001 3.3K(J)
R3002 3.3K(J)
R3003 3.3K(J)
R3004 3.3K(J)
R3005 3.3K(J)
R3006 3.3K(J)
FPD_DBEP 3/9
[G90A94]
IC301
[DIGITAL_IN I/F]
TC90A94TBG
209:8B LVD_Y7
209:8B LVD_Y6
209:8B LVD_Y5
209:8B LVD_Y4
209:8B LVD_Y3
209:8B LVD_Y2
209:8B LVD_Y1
209:8B LVD_Y0
209:8C LVD_C7
209:8C LVD_C6
209:8C LVD_C5
209:8C LVD_C4
209:8C LVD_C3
209:8C LVD_C2
209:8C LVD_C1
209:8B LVD_C0
209:8D LVD_PR7
209:8D LVD_PR6
209:8D LVD_PR5
209:8D LVD_PR4
209:8C LVD_PR3
209:8C LVD_PR2
209:8C LVD_PR1
209:8C LVD_PR0
210:6B:605:2A LVD_HS
210:6B:605:2A LVD_VS
210:6B LVD_CLK
P2 Y9
P1 Y8
N1 Y7
N3 Y6
N2 Y5
M1 Y4
M2 Y3
M3 Y2
M4 Y1
L1 Y0
L2 PB_C9
L3 PB_C8
L4 PB_C7
K1 PB_C6
K2 PB_C5
K3 PB_C4
J1 PB_C3
J2 PB_C2
K4 PB_C1
J3 PB_C0
H1 PR9
H2 PR8
G1 PR7
H3 PR6
J4 PR5
G2 PR4
F1 PR3
F2 PR2
G3 PR1
H4 PR0
U1 HDIN
R3 VDIN
T2 FLPHIN
T1 HBLKIN
R2 VBLKIN
C25 VIDCK
3.3K(J) [RMX4A]
RM303
D_GND

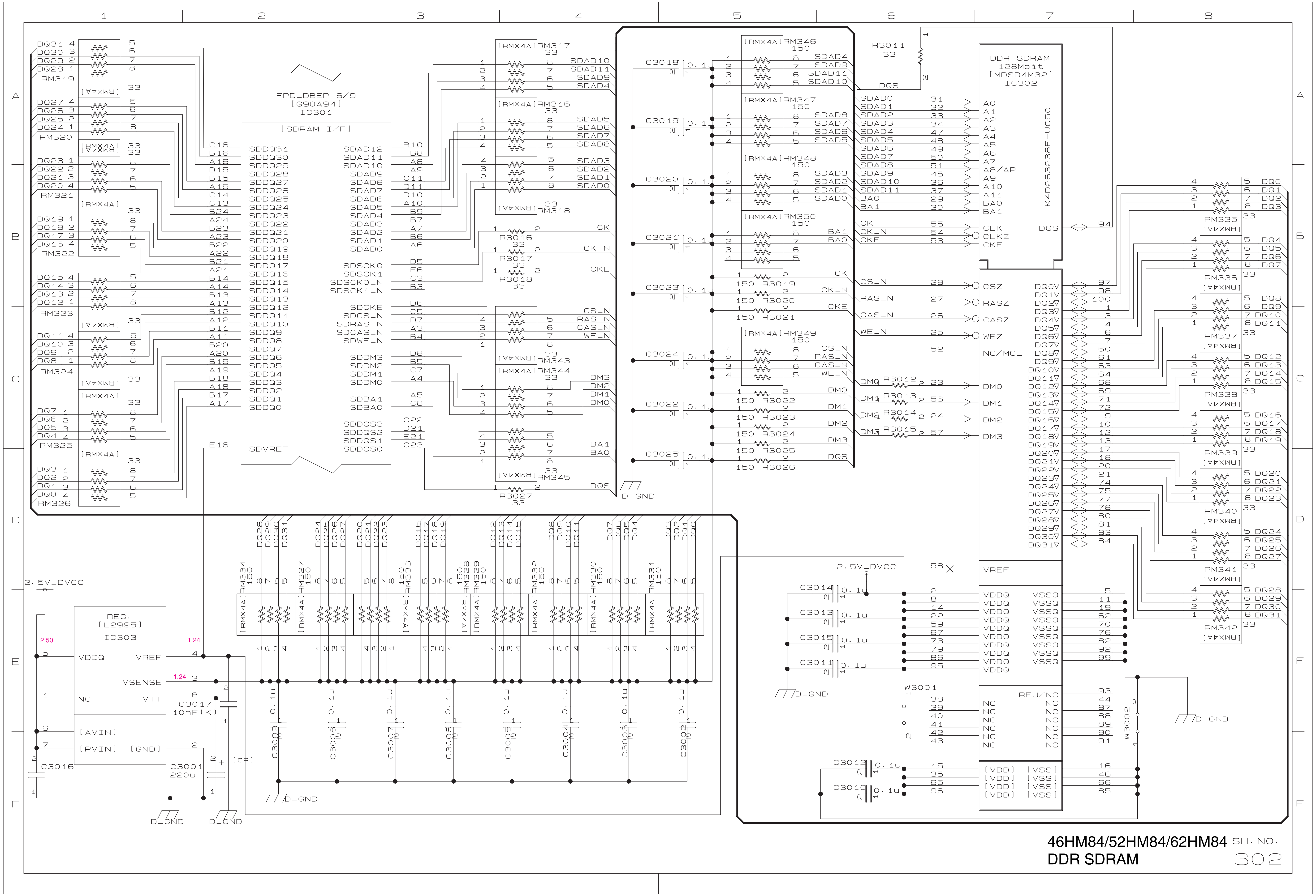
46HM84/52HM84/62HM84
SCALER DIGITAL INPUT

SH. NO.
300

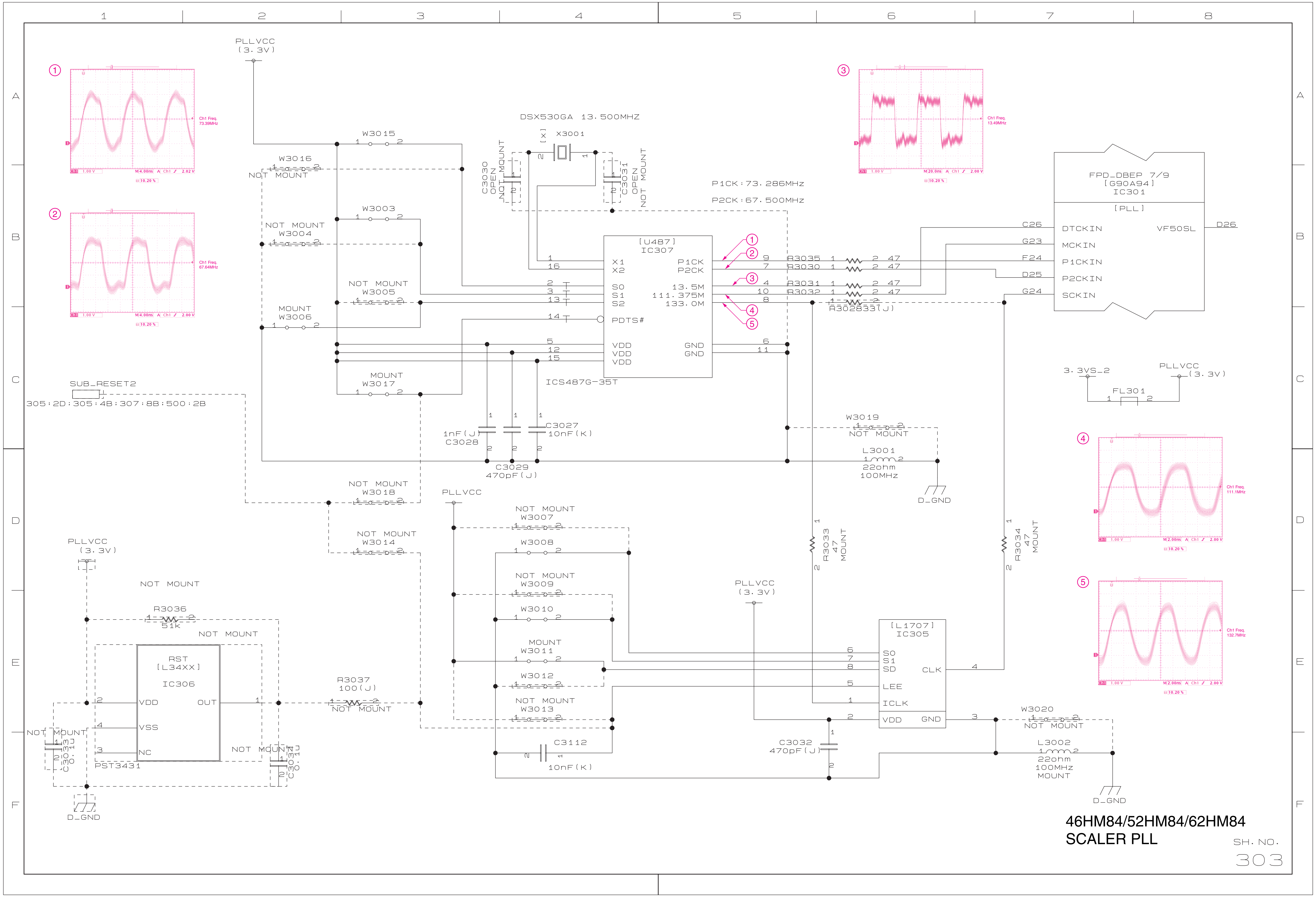

1
2
3
4
5
6
7
8
A
B
C
D
E
F
FPD_DBEP 4/9
[G90A94]
IC301
[CAPTURE_IN I/F]
CAPG1IN7
CAPG1IN6
CAPG1IN5
CAPG1IN4
CAPG1IN3
CAPG1IN2
CAPG1IN1
CAPG1IN0
CAPB1IN7
CAPB1IN6
CAPB1IN5
CAPB1IN4
CAPB1IN3
CAPB1IN2
CAPB1IN1
CAPB1IN0
CAPR1IN7
CAPR1IN6
CAPR1IN5
CAPR1IN4
CAPR1IN3
CAPR1IN2
CAPR1IN1
CAPR1IN0
CAPG2IN7
CAPG2IN6
CAPG2IN5
CAPG2IN4
CAPG2IN3
CAPG2IN2
CAPG2IN1
CAPG2IN0
CAPB2IN7
CAPB2IN6
CAPB2IN5
CAPB2IN4
CAPB2IN3
CAPB2IN2
CAPB2IN1
CAPB2IN0
CAPR2IN7
CAPR2IN6
CAPR2IN5
CAPR2IN4
CAPR2IN3
CAPR2IN2
CAPR2IN1
CAPR2IN0
CAPHD
CAPVD
CAPCK
DVIEN
AE8
AF7
AD8
AE7
AF6
AE6
AD7
AC8
AF5
AE5
AD6
AC7
AF4
AD5
AC6
AE4
AD4
AC5
AF3
AE3
AC4
AD3
AB4
AC3
AD2
AB3
AD1
Y4
AA3
AC2
AC1
Y3
AB2
AB1
V4
W3
AA2
AA1
Y2
V3
Y1
W2
W1
U3
V2
T3
V1
U2
P3
R1
E24
P4
QE15
QE14
QE13
QE12
QE11
QE10
QE9
QE8
QE7
QE6
QE5
QE4
QE3
QE2
QE1
QE0
QE23
QE22
QE21
QE20
QE19
QE18
QE17
QE16
QO15
QO14
QO13
QO12
QO11
QO10
QO9
QO8
QO7
QO6
QO5
QO4
QO3
QO2
QO1
QO0
QO23
QO22
QO21
QO20
QO19
QO18
QO17
QO16
R3007 3.3K(J)
R3008 3.3K(J)
R3009 3.3K(J)
R3010 3.3K(J)
D_GND
RM310 3.3K(J) [RMX4A]
RM314 3.3K(J) [RMX4A]
RM311 3.3K(J) [RMX4A]
RM315 3.3K(J) [RMX4A]
RM313 3.3K(J) [RMX4A]
RM312 3.3K(J) [RMX4A]
RM305 3.3K(J) [RMX4A]
RM304 3.3K(J) [RMX4A]
RM308 3.3K(J) [RMX4A]
RM306 3.3K(J) [RMX4A]
RM309 3.3K(J) [RMX4A]
RM307 3.3K(J) [RMX4A]
D_GND
D_GND

46HM84/52HM84/62HM84
SCALER CAPTURE INPUT

SH. NO.
301

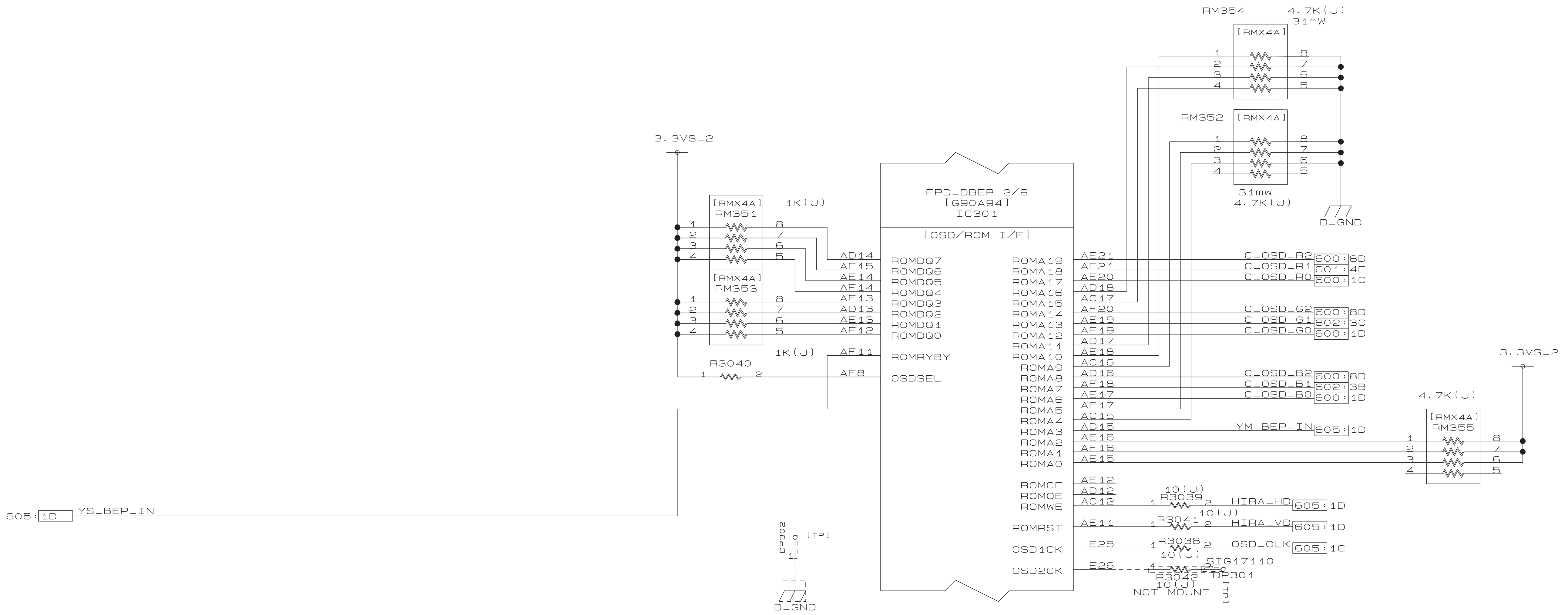

FPD_DBEP 6/9
[G90A94]
IC301
[SDRAM I/F]
DDR SDRAM
128Mbit
[MDSD4M32]
IC302
K4D263238F-UC50
REG.
[L2995]
IC303
VDDQ
VREF
VSENSE
NC
VTT
[AVIN]
[PVIN]
[GND]
2.5V_DVCC
2.50
1.24
C3016
C3001
220u
C3017
10nF(K)
[CP]
D_GND
RM317
RM316
RM318
RM343
RM344
RM345
RM346
RM347
RM348
RM350
RM349
RM319
RM320
RM321
RM322
RM323
RM324
RM325
RM326
RM334
RM327
RM333
RM328
RM329
RM332
RM330
RM331
RM335
RM336
RM337
RM338
RM339
RM340
RM341
RM342
[RMX4A]
R3011
R3016
R3017
R3018
R3019
R3020
R3021
R3022
R3023
R3024
R3025
R3026
R3027
R3012
R3013
R3014
R3015
C3018
C3019
C3020
C3021
C3023
C3024
C3022
C3025
C3014
C3013
C3015
C3011
C3012
C3010
C3009
C3008
C3007
C3006
C3005
C3004
C3003
C3002
W3001
W3002
0.1u
33
150
SDQ31 … SDQ0
SDAD12 … SDAD0
SDSCK0
SDSCK1
SDSCK0_N
SDSCK1_N
SDCKE
SDCS_N
SDRAS_N
SDCAS_N
SDWE_N
SDDM3
SDDM2
SDDM1
SDDM0
SDBA1
SDBA0
SDDQS3
SDDQS2
SDDQS1
SDDQS0
SDVREF
DQ31 … DQ0
CK
CK_N
CKE
CS_N
RAS_N
CAS_N
WE_N
DM0
DM1
DM2
DM3
BA0
BA1
DQS
A0 … A11
A8/AP
CLK
CLKZ
CSZ
RASZ
CASZ
WEZ
NC/MCL
DQ0 … DQ31
VDDQ
VSSQ
RFU/NC
[VDD]
[VSS]

46HM84/52HM84/62HM84 SH. NO.
DDR SDRAM 302


PLLVCC (3.3V)
DSX530GA 13.500MHZ
X3001
C3030 OPEN NOT MOUNT
C3031 OPEN NOT MOUNT
W3015
W3016 NOT MOUNT
W3003
NOT MOUNT W3004
NOT MOUNT W3005
MOUNT W3006
MOUNT W3017
[U487] IC307
X1 X2 S0 S1 S2 PDTS# VDD VDD VDD
P1CK P2CK 13.5M 111.375M 133.0M GND GND
ICS487G-35T
P1CK:73.286MHz
P2CK:67.500MHz
R3035 47
R3030 47
R3031 47
R3032 47
R302833(J)
FPD_DBEP 7/9 [G90A94] IC301
[PLL]
DTCKIN MCKIN P1CKIN P2CKIN SCKIN VF50SL
C26 G23 F24 D25 G24 D26
3.3VS_2
PLLVCC (3.3V)
FL301
SUB_RESET2
305:2D:305:4B:307:8B:500:2B
1nF(J) C3028
C3029 470pF(J)
C3027 10nF(K)
W3019 NOT MOUNT
L3001 22ohm 100MHz
D_GND
NOT MOUNT W3018
NOT MOUNT W3014
PLLVCC
NOT MOUNT W3007
W3008
NOT MOUNT W3009
W3010
MOUNT W3011
W3012
NOT MOUNT W3013
C3112 10nF(K)
R3033 47 MOUNT
R3034 47 MOUNT
PLLVCC (3.3V)
[L1707] IC305
S0 S1 SD LEE ICLK VDD CLK GND
C3032 470pF(J)
W3020 NOT MOUNT
L3002 22ohm 100MHz MOUNT
D_GND
PLLVCC (3.3V)
NOT MOUNT
R3036 51K
NOT MOUNT
RST [L34XX] IC306
VDD VSS NC OUT
PST3431
R3037 100(J) NOT MOUNT
NOT MOUNT C3033 0.1
NOT MOUNT C3034 0.1
D_GND
①
②
③
④
⑤
Ch1 Freq. 73.30MHz
Ch1 Freq. 67.64MHz
Ch1 Freq. 13.49MHz
Ch1 Freq. 111.1MHz
Ch1 Freq. 132.7MHz
1 2 3 4 5 6 7 8
A B C D E F

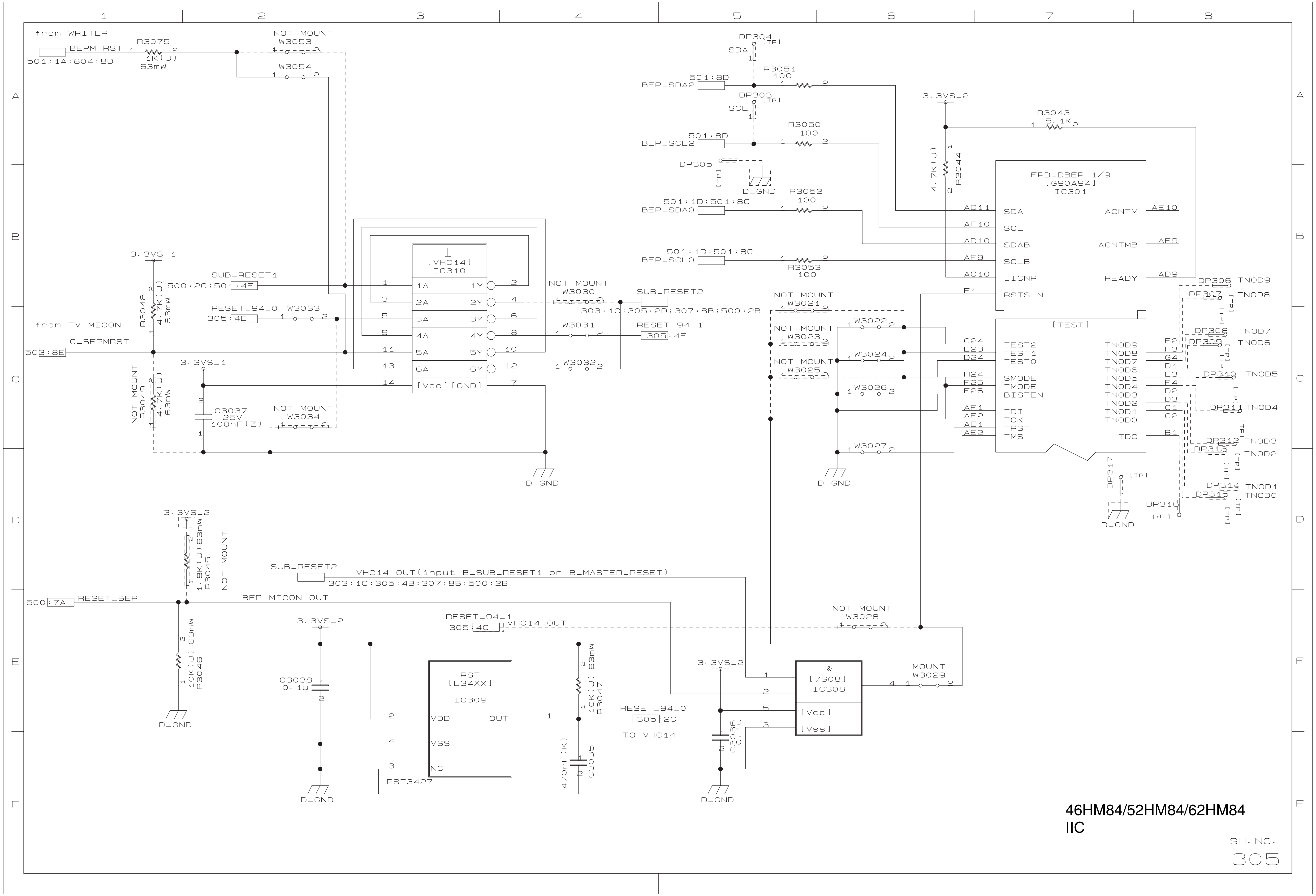
46HM84/52HM84/62HM84
SCALER PLL

SH. NO.
303

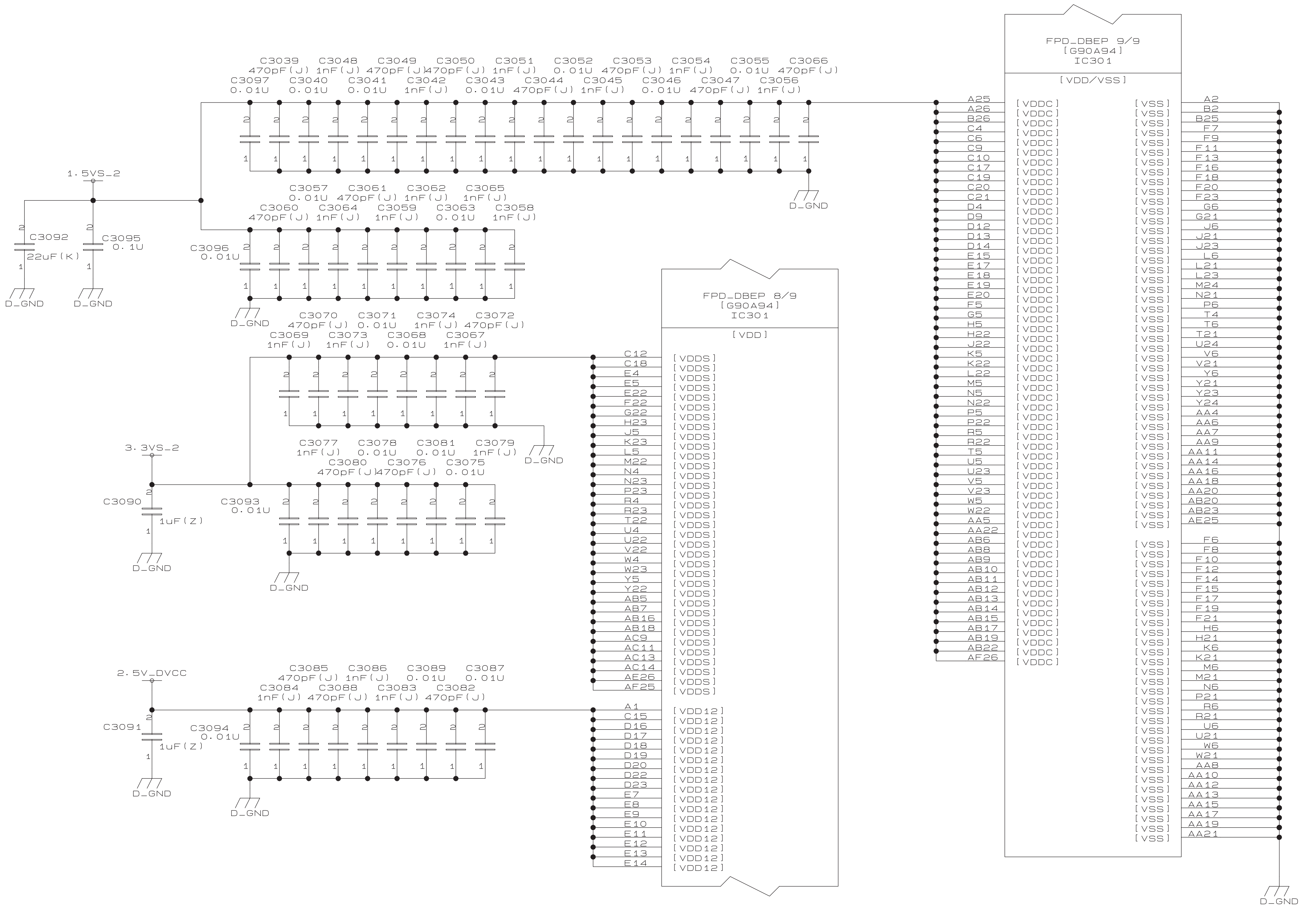

RM354
4.7K(J)
31mW
[RMX4A]
RM352
[RMX4A]
31mW
4.7K(J)
D_GND
3.3VS_2
[RMX4A]
RM351
1K(J)
[RMX4A]
RM353
1K(J)
R3040
FPD_DBEP 2/9
[G90A94]
IC301
[OSD/ROM I/F]
AD14 ROMDQ7
AF15 ROMDQ6
AE14 ROMDQ5
AF14 ROMDQ4
AF13 ROMDQ3
AD13 ROMDQ2
AE13 ROMDQ1
AF12 ROMDQ0
AF11 ROMRYBY
AF8 OSDSEL
ROMA19 AE21
ROMA18 AF21
ROMA17 AE20
ROMA16 AD18
ROMA15 AC17
ROMA14 AF20
ROMA13 AE19
ROMA12 AF19
ROMA11 AD17
ROMA10 AE18
ROMA9 AC16
ROMA8 AD16
ROMA7 AF18
ROMA6 AE17
ROMA5 AF17
ROMA4 AC15
ROMA3 AD15
ROMA2 AE16
ROMA1 AF16
ROMA0 AE15
ROMCE AE12
ROMOE AD12
ROMWE AC12
ROMRST AE11
OSD1CK E25
OSD2CK E26
C_OSD_R2 600:8D
C_OSD_R1 601:4E
C_OSD_R0 600:1C
C_OSD_G2 600:8D
C_OSD_G1 602:3C
C_OSD_G0 600:1D
C_OSD_B2 600:8D
C_OSD_B1 602:3B
C_OSD_B0 600:1D
YM_BEP_IN 605:1D
3.3VS_2
4.7K(J)
[RMX4A]
RM355
10(J)
R3039
HIRA_HD 605:1D
10(J)
R3041
HIRA_VD 605:1D
R3038
10(J)
OSD_CLK 605:1C
SIG17110
R3042
DP301
10(J)
NOT MOUNT
[TP]
DP302
[TP]
D_GND
605:1D YS_BEP_IN

46HM84/52HM84/62HM84
OSD for North America

SH. NO.
304

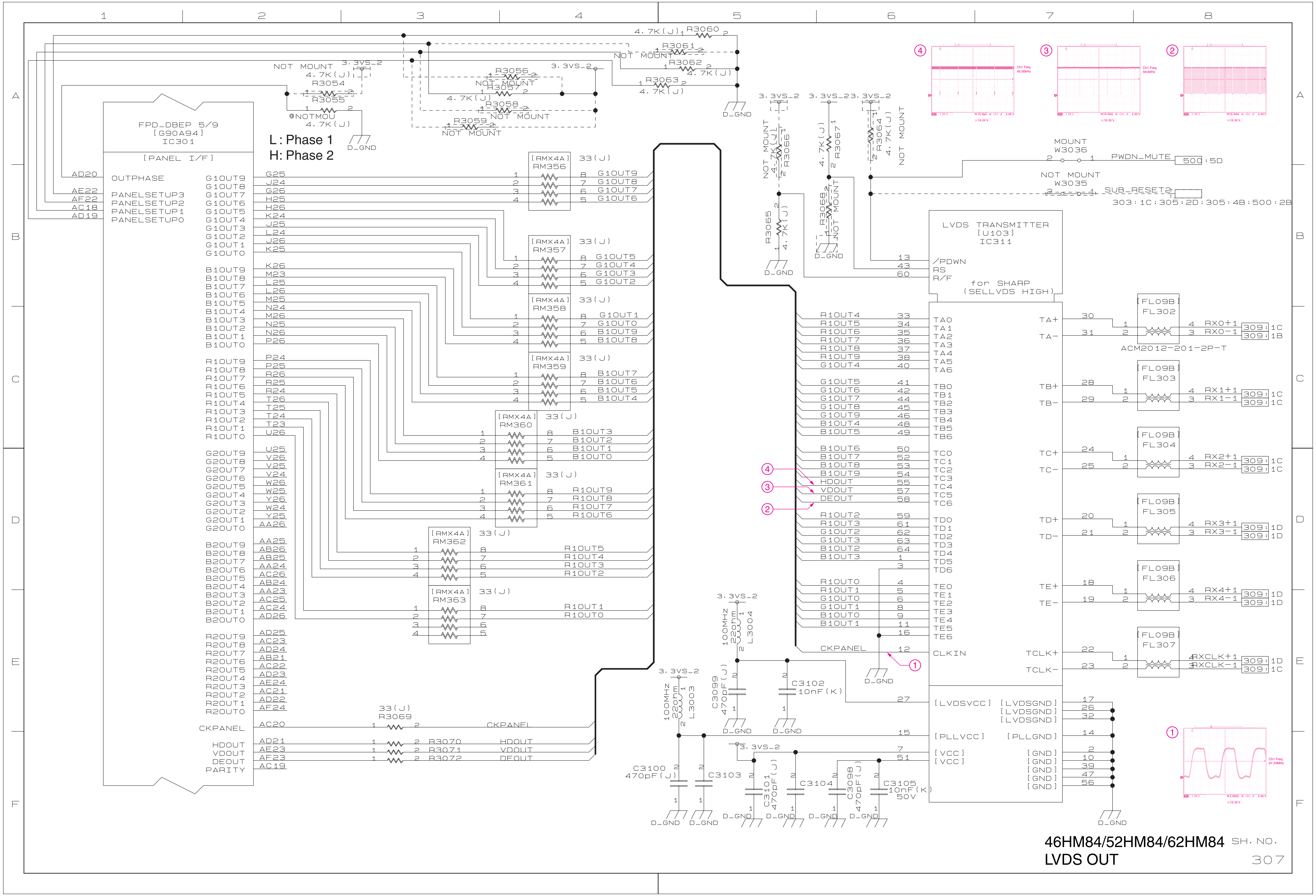

from WRITER
BEPM_RST
501:1A:804:8D
R3075
1K(J)
63mW
NOT MOUNT
W3053
W3054
DP304
SDA
[TP]
501:8D
BEP_SDA2
R3051
100
DP303
SCL
BEP_SCL2
R3050
100
DP305
D_GND
BEP_SDA0
501:1D:501:8C
R3052
100
BEP_SCL0
R3053
100
3.3VS_2
R3043
5.1K
R3044
4.7K(J)
FPD_DBEP 1/9
[G90A94]
IC301
AD11
AF10
AD10
AF9
AC10
E1
SDA
SCL
SDAB
SCLB
IICNR
RSTS_N
ACNTM
ACNTMB
READY
AE10
AE9
AD9
[TEST]
C24
E23
D24
H24
F25
F26
AF1
AF2
AE1
AE2
TEST2
TEST1
TEST0
SMODE
TMODE
BISTEN
TDI
TCK
TRST
TMS
TNOD9
TNOD8
TNOD7
TNOD6
TNOD5
TNOD4
TNOD3
TNOD2
TNOD1
TNOD0
TDO
E2
F3
G4
D1
E3
F4
D2
D3
C1
C2
B1
DP306
DP307
DP308
DP309
DP310
DP311
DP312
DP313
DP314
DP315
DP316
DP317
NOT MOUNT
W3021
W3022
W3023
W3024
W3025
W3026
W3027
3.3VS_1
SUB_RESET1
500:2C:501:4F
R3048
4.7K(J)
63mW
RESET_94_0
W3033
305:4E
from TV MICON
C_BEPMRST
503:8E
NOT MOUNT
R3049
4.7K(J)
63mW
C3037
25V
100nF(Z)
W3034
[VHC14]
IC310
1A
2A
3A
4A
5A
6A
1Y
2Y
3Y
4Y
5Y
6Y
[Vcc][GND]
W3030
SUB_RESET2
303:1C:305:2D:307:8B:500:2B
W3031
RESET_94_1
305:4E
W3032
3.3VS_2
1.8K(J)63mW
R3045
NOT MOUNT
SUB_RESET2
VHC14 OUT(input B_SUB_RESET1 or B_MASTER_RESET)
303:1C:305:4B:307:8B:500:2B
500:7A
RESET_BEP
BEP MICON OUT
10K(J) 63mW
R3046
RESET_94_1
305:4C
VHC14 OUT
NOT MOUNT
W3028
C3038
0.1u
RST
[L34XX]
IC309
VDD
VSS
NC
OUT
PST3427
10K(J) 63mW
R3047
470nF(K)
C3035
RESET_94_0
305:2C
TO VHC14
&
[7S08]
IC308
[Vcc]
[Vss]
C3036
0.1u
MOUNT
W3029
D_GND
SH. NO.
305

46HM84/52HM84/62HM84
IIC

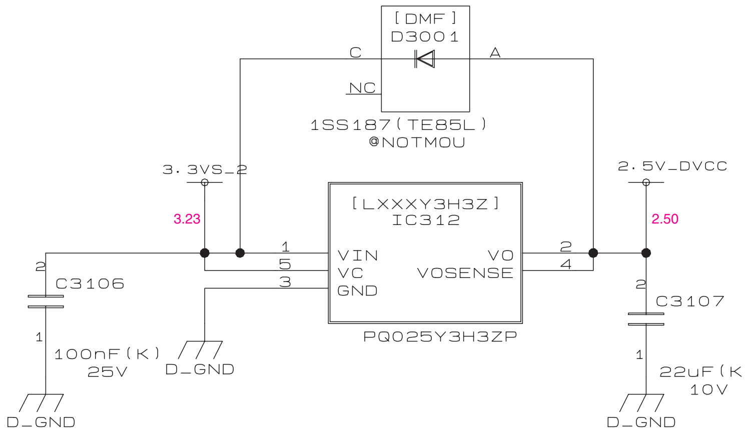

FPD_DBEP 9/9
[G90A94]
IC301
[VDD/VSS]
FPD_DBEP 8/9
[G90A94]
IC301
[VDD]
1.5VS_2
3.3VS_2
2.5V_DVCC
D_GND
C3039 470pF(J) C3048 1nF(J) C3049 470pF(J) C3050 470pF(J) C3051 1nF(J) C3052 0.01U C3053 470pF(J) C3054 1nF(J) C3055 0.01U C3066 470pF(J)
C3097 0.01U C3040 0.01U C3041 0.01U C3042 1nF(J) C3043 0.01U C3044 470pF(J) C3045 1nF(J) C3046 0.01U C3047 470pF(J) C3056 1nF(J)
C3057 0.01U C3061 470pF(J) C3062 1nF(J) C3065 1nF(J)
C3060 470pF(J) C3064 1nF(J) C3059 1nF(J) C3063 0.01U C3058 1nF(J)
C3092 22uF(K)
C3095 0.1U
C3096 0.01U
C3070 470pF(J) C3071 0.01U C3074 1nF(J) C3072 470pF(J)
C3069 1nF(J) C3073 1nF(J) C3068 0.01U C3067 1nF(J)
C3077 1nF(J) C3078 0.01U C3081 0.01U C3079 1nF(J)
C3080 470pF(J) C3076 470pF(J) C3075 0.01U
C3090 1uF(Z)
C3093 0.01U
C3085 470pF(J) C3086 1nF(J) C3089 0.01U C3087 0.01U
C3084 1nF(J) C3088 470pF(J) C3083 1nF(J) C3082 470pF(J)
C3091 1uF(Z)
C3094 0.01U
[VDDS]: C12, C18, E4, E5, E22, F22, G22, H23, J5, K23, L5, M22, N4, N23, P23, R4, R23, T22, U4, U22, V22, W4, W23, Y5, Y22, AB5, AB7, AB16, AB18, AC9, AC11, AC13, AC14, AE26, AF25
[VDD12]: A1, C15, D16, D17, D18, D19, D20, D22, D23, E7, E8, E9, E10, E11, E12, E13, E14
[VDDC]: A25, A26, B26, C4, C6, C9, C10, C17, C19, C20, C21, D4, D9, D12, D13, D14, E15, E17, E18, E19, E20, F5, G5, H5, H22, J22, K5, K22, L22, M5, N5, N22, P5, P22, R5, R22, T5, U5, U23, V5, V23, W5, W22, AA5, AA22, AB6, AB8, AB9, AB10, AB11, AB12, AB13, AB14, AB15, AB17, AB19, AB22, AF26
[VSS]: A2, B2, B25, F7, F9, F11, F13, F16, F18, F20, F23, G6, G21, J6, J21, J23, L6, L21, L23, M24, N21, P6, T4, T6, T21, U24, V6, V21, Y6, Y21, Y23, Y24, AA4, AA6, AA7, AA9, AA11, AA14, AA16, AA18, AA20, AB20, AB23, AE25
[VSS]: F6, F8, F10, F12, F14, F15, F17, F19, F21, H6, H21, K6, K21, M6, M21, N6, P21, R6, R21, U6, U21, W6, W21, AA8, AA10, AA12, AA13, AA15, AA17, AA19, AA21
1 2 3 4 5 6 7 8
A B C D E F

46HM84/52HM84/62HM84
94TB POWER

SH. NO.
306

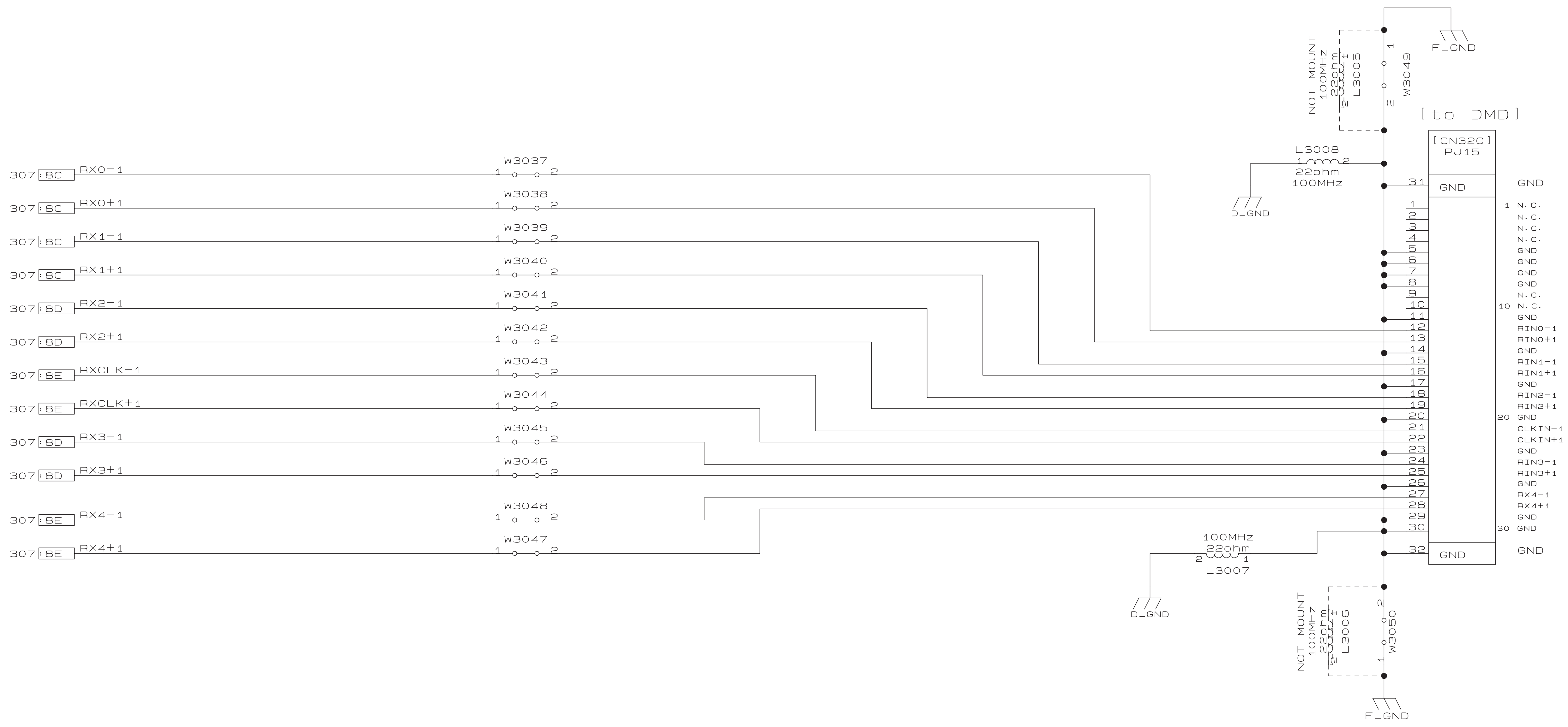

FPD_DBEP 5/9
[G90A94]
IC301
[PANEL I/F]
OUTPHASE
PANELSETUP3
PANELSETUP2
PANELSETUP1
PANELSETUP0
AD20
AE22
AF22
AC18
AD19
G1OUT9 G1OUT8 G1OUT7 G1OUT6 G1OUT5 G1OUT4 G1OUT3 G1OUT2 G1OUT1 G1OUT0
B1OUT9 B1OUT8 B1OUT7 B1OUT6 B1OUT5 B1OUT4 B1OUT3 B1OUT2 B1OUT1 B1OUT0
R1OUT9 R1OUT8 R1OUT7 R1OUT6 R1OUT5 R1OUT4 R1OUT3 R1OUT2 R1OUT1 R1OUT0
G2OUT9 G2OUT8 G2OUT7 G2OUT6 G2OUT5 G2OUT4 G2OUT3 G2OUT2 G2OUT1 G2OUT0
B2OUT9 B2OUT8 B2OUT7 B2OUT6 B2OUT5 B2OUT4 B2OUT3 B2OUT2 B2OUT1 B2OUT0
R2OUT9 R2OUT8 R2OUT7 R2OUT6 R2OUT5 R2OUT4 R2OUT3 R2OUT2 R2OUT1 R2OUT0
CKPANEL
HDOUT
VDOUT
DEOUT
PARITY
L : Phase 1
H: Phase 2
NOT MOUNT
3.3VS_2
4.7K(J)
R3054
R3055
@NOTMOU
D_GND
R3056
R3057
R3058
R3059
R3060
R3061
R3062
R3063
R3064
R3065
R3066
R3067
R3068
[RMX4A] RM356 33(J)
[RMX4A] RM357 33(J)
[RMX4A] RM358 33(J)
[RMX4A] RM359 33(J)
[RMX4A] RM360 33(J)
[RMX4A] RM361 33(J)
[RMX4A] RM362 33(J)
[RMX4A] RM363 33(J)
33(J) R3069
R3070
R3071
R3072
MOUNT W3036
PWDN_MUTE
500:5D
NOT MOUNT W3035
SUB_RESET2
303:1C:305:2D:305:4B:500:2B
LVDS TRANSMITTER
[U103]
IC311
/PDWN
RS
R/F
for SHARP
(SELLVDS HIGH)
TA0 TA1 TA2 TA3 TA4 TA5 TA6
TB0 TB1 TB2 TB3 TB4 TB5 TB6
TC0 TC1 TC2 TC3 TC4 TC5 TC6
TD0 TD1 TD2 TD3 TD4 TD5 TD6
TE0 TE1 TE2 TE3 TE4 TE5 TE6
CLKIN
TA+ TA−
TB+ TB−
TC+ TC−
TD+ TD−
TE+ TE−
TCLK+ TCLK−
[LVDSVCC]
[LVDSGND]
[PLLVCC]
[PLLGND]
[VCC]
[GND]
[FL09B] FL302
[FL09B] FL303
[FL09B] FL304
[FL09B] FL305
[FL09B] FL306
[FL09B] FL307
ACM2012-201-2P-T
RX0+1 309:1C
RX0−1 309:1B
RX1+1 309:1C
RX1−1 309:1C
RX2+1 309:1C
RX2−1 309:1C
RX3+1 309:1D
RX3−1 309:1D
RX4+1 309:1D
RX4−1 309:1D
RXCLK+1 309:1D
RXCLK−1 309:1C
100MHz 220ohm L3004
100MHz 220ohm L3003
C3099 470pF(J)
C3102 10nF(K)
C3100 470pF(J)
C3103
C3101 470pF(J)
C3104
C3098 470pF(J)
C3105 10nF(K) 50V
①
②
③
④

46HM84/52HM84/62HM84 SH. NO.
LVDS OUT 307

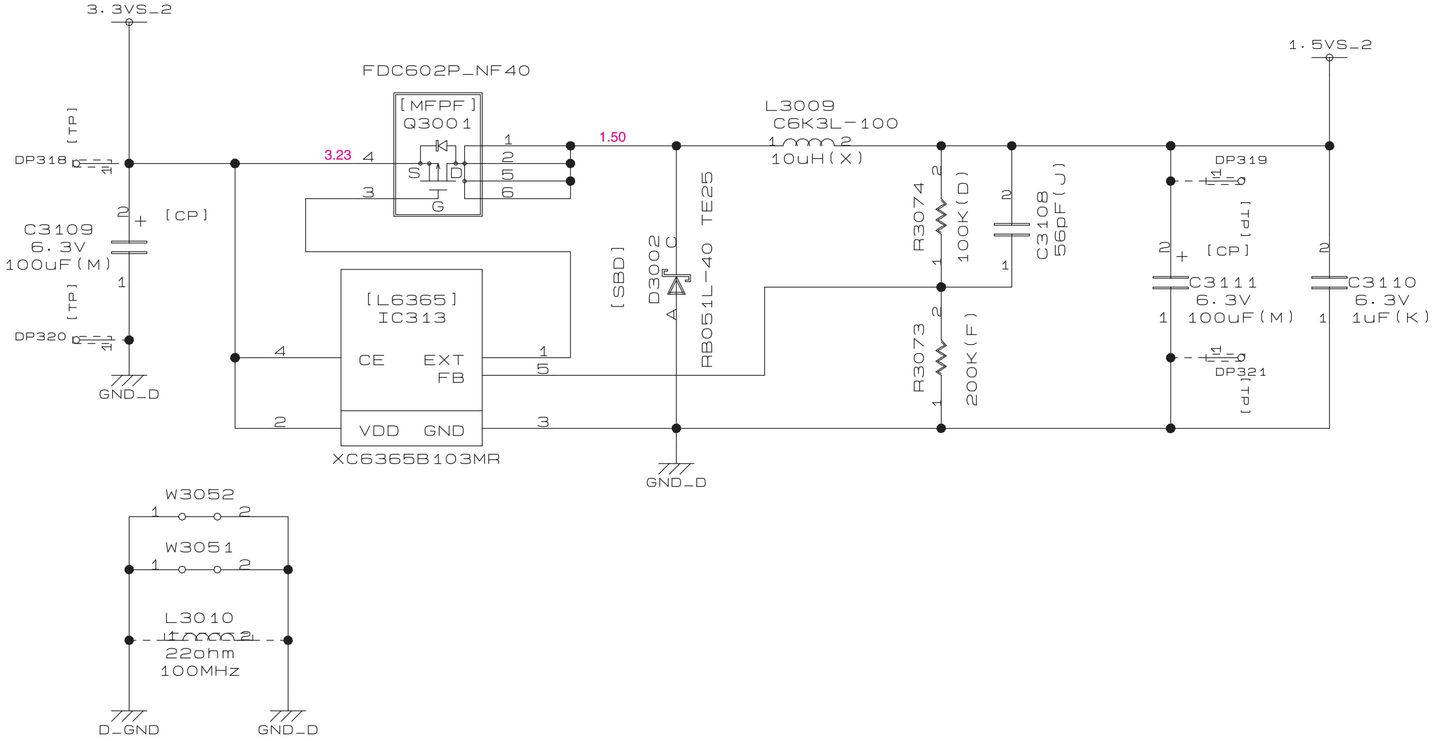

[DMF]
D3001
C
A
NC
1SS187(TE85L)
@NOTMOU
3.3VS_2
3.23
2.5V_DVCC
2.50
[LXXXY3H3Z]
IC312
1
5
3
VIN
VC
GND
VO
VOSENSE
2
4
PQ025Y3H3ZP
2
C3106
1
100nF(K)
25V
D_GND
D_GND
2
C3107
1
22uF(K)
10V
D_GND

46HM84/52HM84/62HM84
Power (3.3V_2 to 2.5V_DVCC)

SH. NO.
308

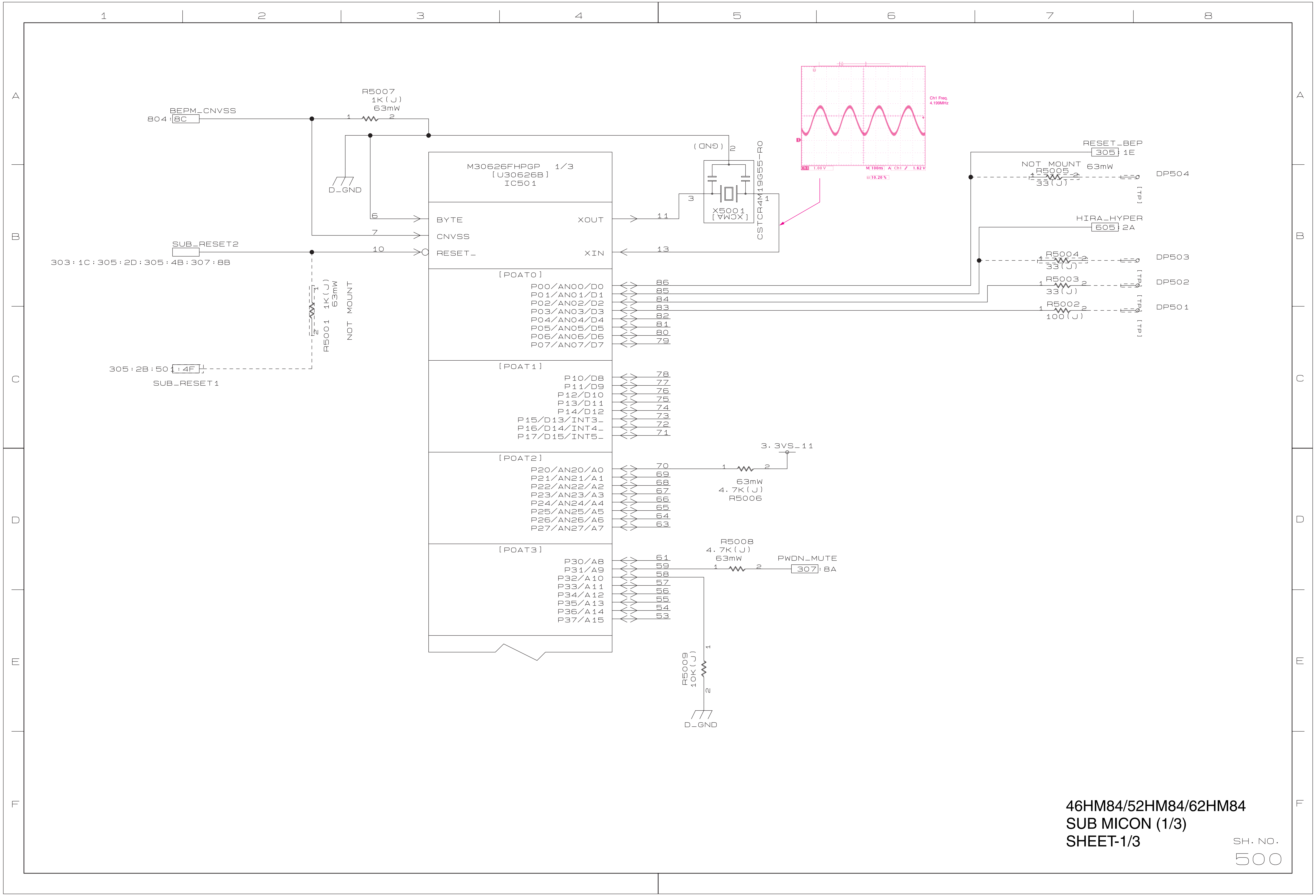

307 8C RX0-1
307 8C RX0+1
307 8C RX1-1
307 8C RX1+1
307 8D RX2-1
307 8D RX2+1
307 8E RXCLK-1
307 8E RXCLK+1
307 8D RX3-1
307 8D RX3+1
307 8E RX4-1
307 8E RX4+1
W3037
W3038
W3039
W3040
W3041
W3042
W3043
W3044
W3045
W3046
W3048
W3047
F_GND
NOT MOUNT 100MHz 22ohm L3005
W3049
[to DMD]
[CN32C] PJ15
L3008 22ohm 100MHz
D_GND
31 GND GND
1 N.C.
2 N.C.
3 N.C.
4 N.C.
5 GND
6 GND
7 GND
8 GND
9 N.C.
10 N.C.
11 GND
12 RIN0-1
13 RIN0+1
14 GND
15 RIN1-1
16 RIN1+1
17 GND
18 RIN2-1
19 RIN2+1
20 GND
21 CLKIN-1
22 CLKIN+1
23 GND
24 RIN3-1
25 RIN3+1
26 GND
27 RX4-1
28 RX4+1
29 GND
30 GND
32 GND GND
100MHz 22ohm L3007
D_GND
NOT MOUNT 100MHz 22ohm L3006
W3050
F_GND

46HM84/52HM84/62HM84
LVDS OUT CONNECTOR
SH. NO.
309


3.3VS_2
1.5VS_2
FDC602P_NF40
[MFPF]
Q3001
S
D
G
3.23
1.50
L3009
C6K3L-100
10uH(X)
DP318
[TP]
C3109
6.3V
100uF(M)
[CP]
DP320
[TP]
GND_D
[L6365]
IC313
CE
EXT
FB
VDD
GND
XC6365B103MR
[SBD]
D3002
RB051L-40 TE25
A
C
GND_D
R3074
100K(D)
C3108
56pF(J)
R3073
200K(F)
DP319
[TP]
C3111
6.3V
100uF(M)
[CP]
DP321
[TP]
C3110
6.3V
1uF(K)
W3052
W3051
L3010
22ohm
100MHz
D_GND
GND_D

46HM84/52HM84/62HM84
DC/DC CONVERTER

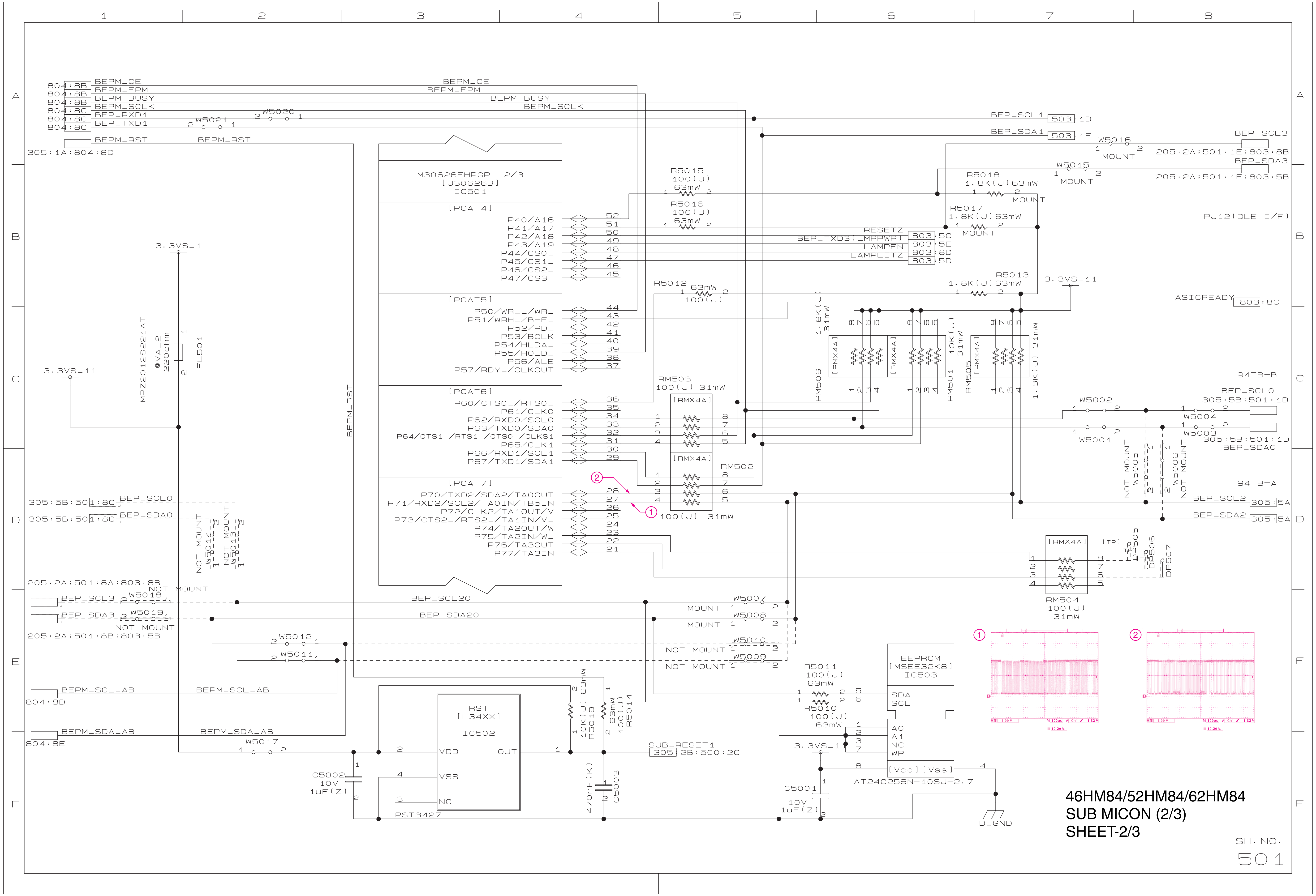
SH. NO.
310


1
2
3
4
5
6
7
8
A
B
C
D
E
F
R5007
1K(J)
63mW
BEPM_CNVSS
804
8C
D_GND
M30626FHPGP 1/3
[U30626B]
IC501
BYTE
CNVSS
RESET_
XOUT
XIN
6
7
10
11
13
(GND)
2
3
1
X5001
[XCMA]
CSTCR4M19G55-R0
Ch1 Freq.
4.199MHz
SUB_RESET2
303:1C:305:2D:305:4B:307:8B
R5001
1K(J)
63mW
NOT MOUNT
305:2B:501
4F
SUB_RESET1
[POAT0]
P00/AN00/D0
P01/AN01/D1
P02/AN02/D2
P03/AN03/D3
P04/AN04/D4
P05/AN05/D5
P06/AN06/D6
P07/AN07/D7
86
85
84
83
82
81
80
79
RESET_BEP
305
1E
NOT MOUNT 63mW
R5005
33(J)
DP504
HIRA_HYPER
605
2A
R5004
33(J)
DP503
R5003
33(J)
DP502
R5002
100(J)
DP501
[TP]
[POAT1]
P10/D8
P11/D9
P12/D10
P13/D11
P14/D12
P15/D13/INT3_
P16/D14/INT4_
P17/D15/INT5_
78
77
76
75
74
73
72
71
[POAT2]
P20/AN20/A0
P21/AN21/A1
P22/AN22/A2
P23/AN23/A3
P24/AN24/A4
P25/AN25/A5
P26/AN26/A6
P27/AN27/A7
70
69
68
67
66
65
64
63
3.3VS_11
63mW
4.7K(J)
R5006
[POAT3]
P30/A8
P31/A9
P32/A10
P33/A11
P34/A12
P35/A13
P36/A14
P37/A15
61
59
58
57
56
55
54
53
R5008
4.7K(J)
63mW
PWDN_MUTE
307
8A
R5009
10K(J)
D_GND

46HM84/52HM84/62HM84
SUB MICON (1/3)
SHEET-1/3

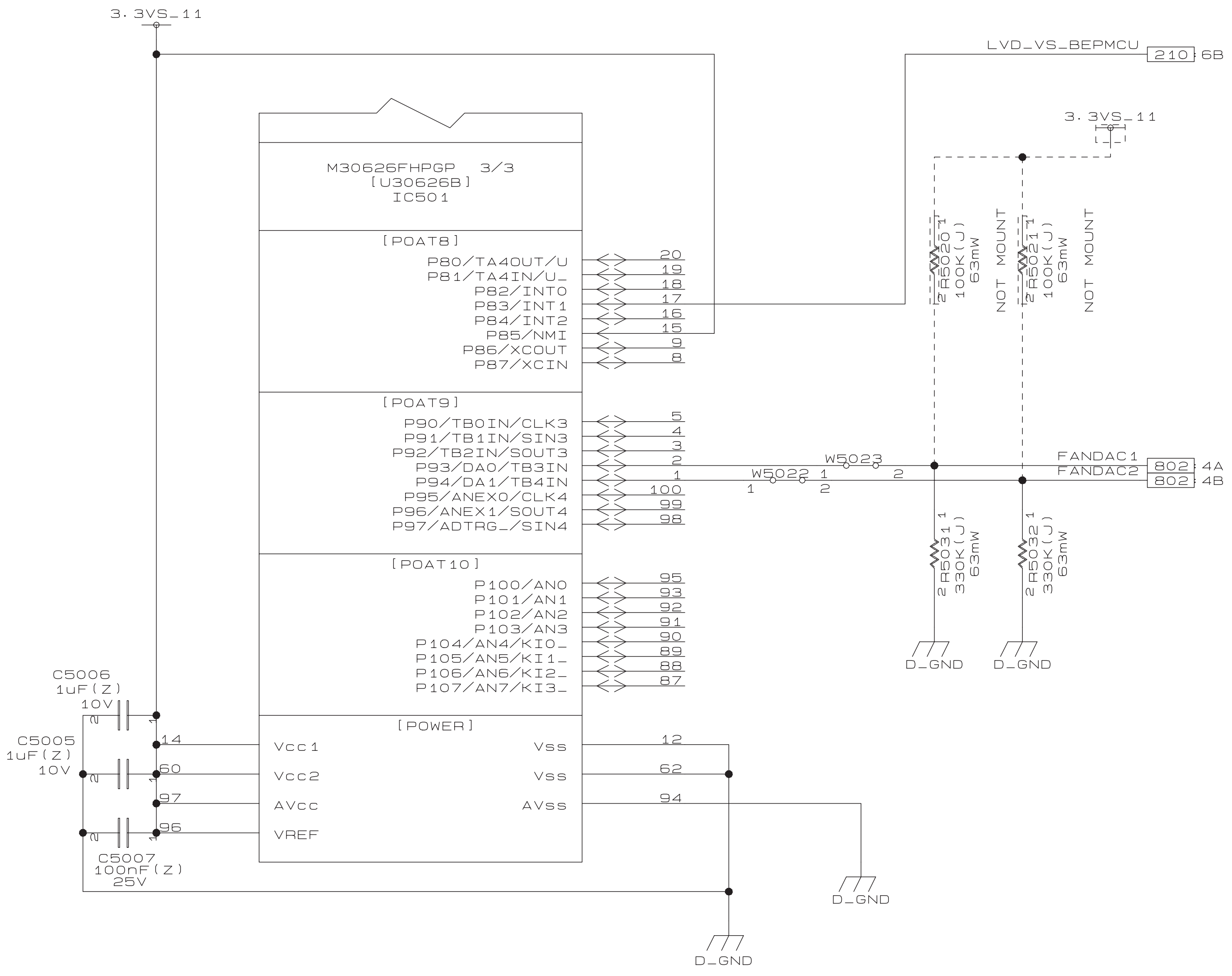
SH. NO.
500

5T03655D


1
2
3
4
5
6
7
8
A
B
C
D
E
F
804:8B BEPM_CE
804:8B BEPM_EPM
804:8B BEPM_BUSY
804:8C BEPM_SCLK
804:8C BEP_RXD1
804:8C BEP_TXD1
W5021
W5020
BEPM_RST
305:1A:804:8D
BEP_SCL1 503 1D
BEP_SDA1 503 1E
W5016 MOUNT
BEP_SCL3
205:2A:501:1E:803:8B
BEP_SDA3
W5015 MOUNT
205:2A:501:1E:803:5B
M30626FHPGP 2/3
[U30626B]
IC501
[POAT4]
P40/A16
P41/A17
P42/A18
P43/A19
P44/CS0_
P45/CS1_
P46/CS2_
P47/CS3_
[POAT5]
P50/WRL_/WR_
P51/WRH_/BHE_
P52/RD_
P53/BCLK
P54/HLDA_
P55/HOLD_
P56/ALE
P57/RDY_/CLKOUT
[POAT6]
P60/CTS0_/RTS0_
P61/CLK0
P62/RXD0/SCL0
P63/TXD0/SDA0
P64/CTS1_/RTS1_/CTS0_/CLKS1
P65/CLK1
P66/RXD1/SCL1
P67/TXD1/SDA1
[POAT7]
P70/TXD2/SDA2/TA0OUT
P71/RXD2/SCL2/TA0IN/TB5IN
P72/CLK2/TA1OUT/V
P73/CTS2_/RTS2_/TA1IN/V_
P74/TA2OUT/W
P75/TA2IN/W_
P76/TA3OUT
P77/TA3IN
R5015 100(J) 63mW
R5016 100(J) 63mW
R5018 1.8K(J)63mW MOUNT
R5017 1.8K(J)63mW MOUNT
RESETZ
BEP_TXD3(LMPPWR)
LAMPEN
LAMPLITZ
803 5C
803 5E
803 8D
803 5D
PJ12(DLE I/F)
R5012 63mW 100(J)
R5013 1.8K(J)63mW
3.3VS_11
ASICREADY 803:8C
3.3VS_1
MPZ2012S221AT
@VAL2 220ohm
FL501
3.3VS_11
RM506 [RMX4A] 1.8K(J) 31mW
RM501 [RMX4A] 10K(J) 31mW
RM505 [RMX4A] 1.8K(J) 31mW
RM503 100(J) 31mW [RMX4A]
RM502 [RMX4A] 100(J) 31mW
94TB-B
BEP_SCL0
305:5B:501:1D
W5002
W5004
W5001
W5003
305:5B:501:1D
BEP_SDA0
W5005 NOT MOUNT
W5006 NOT MOUNT
94TB-A
BEP_SCL2 305 5A
BEP_SDA2 305 5A
BEPM_RST
305:5B:501:8C BEP_SCL0
305:5B:501:8C BEP_SDA0
W5014 NOT MOUNT
W5013 NOT MOUNT
①
②
RM504 [RMX4A] 100(J) 31mW
[TP] DP505
[TP] DP506
[TP] DP507
205:2A:501:8A:803:8B
NOT MOUNT
BEP_SCL3 W5018
BEP_SDA3 W5019
NOT MOUNT
205:2A:501:8B:803:5B
BEP_SCL20
BEP_SDA20
W5007 MOUNT
W5008 MOUNT
W5010 NOT MOUNT
W5009 NOT MOUNT
W5012
W5011
EEPROM [MSEE32K8] IC503
R5011 100(J) 63mW
R5010 100(J) 63mW
SDA
SCL
A0
A1
NC
WP
[Vcc] [Vss]
AT24C256N-10SJ-2.7
3.3VS_1
C5001 10V 1uF(Z)
D_GND
BEPM_SCL_AB 804:8D
BEPM_SDA_AB 804:8E
W5017
RST [L34XX] IC502
VDD
VSS
NC
OUT
PST3427
C5002 10V 1uF(Z)
R5019 10K(J) 63mW
R5014 100(J) 63mW
C5003 470nF(K)
SUB_RESET1 305 2B:500:2C

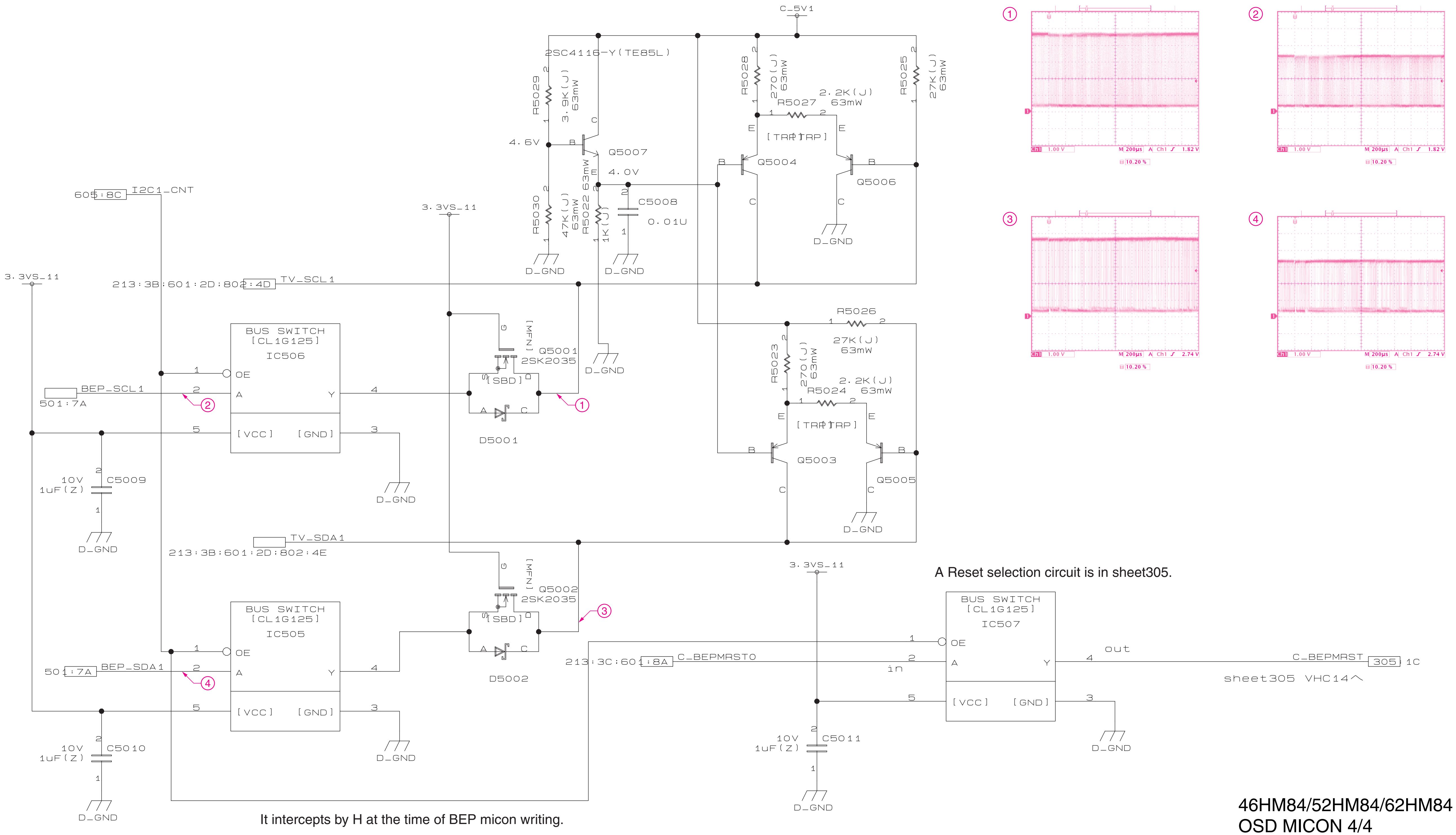
46HM84/52HM84/62HM84
SUB MICON (2/3)
SHEET-2/3

SH. NO.
501


3.3VS_11
M30626FHPGP 3/3
[U30626B]
IC501
[POAT8]
P80/TA4OUT/U
P81/TA4IN/U_
P82/INT0
P83/INT1
P84/INT2
P85/NMI
P86/XCOUT
P87/XCIN
20
19
18
17
16
15
9
8
[POAT9]
P90/TB0IN/CLK3
P91/TB1IN/SIN3
P92/TB2IN/SOUT3
P93/DA0/TB3IN
P94/DA1/TB4IN
P95/ANEX0/CLK4
P96/ANEX1/SOUT4
P97/ADTRG_/SIN4
5
4
3
2
1
100
99
98
[POAT10]
P100/AN0
P101/AN1
P102/AN2
P103/AN3
P104/AN4/KI0_
P105/AN5/KI1_
P106/AN6/KI2_
P107/AN7/KI3_
95
93
92
91
90
89
88
87
[POWER]
Vcc1
Vcc2
AVcc
VREF
Vss
Vss
AVss
14
60
97
96
12
62
94
C5006
1uF(Z)
10V
C5005
1uF(Z)
10V
C5007
100nF(Z)
25V
D_GND
D_GND
LVD_VS_BEPMCU
210
6B
3.3VS_11
R5020
100K(J)
63mW
NOT MOUNT
R5021
100K(J)
63mW
NOT MOUNT
W5023
W5022
FANDAC1
FANDAC2
802
4A
802
4B
R5031
330K(J)
63mW
R5032
330K(J)
63mW
D_GND
D_GND

46HM84/52HM84/62HM84
SUB MICON (3/3)
SHEET-3/3

SH. NO.
502

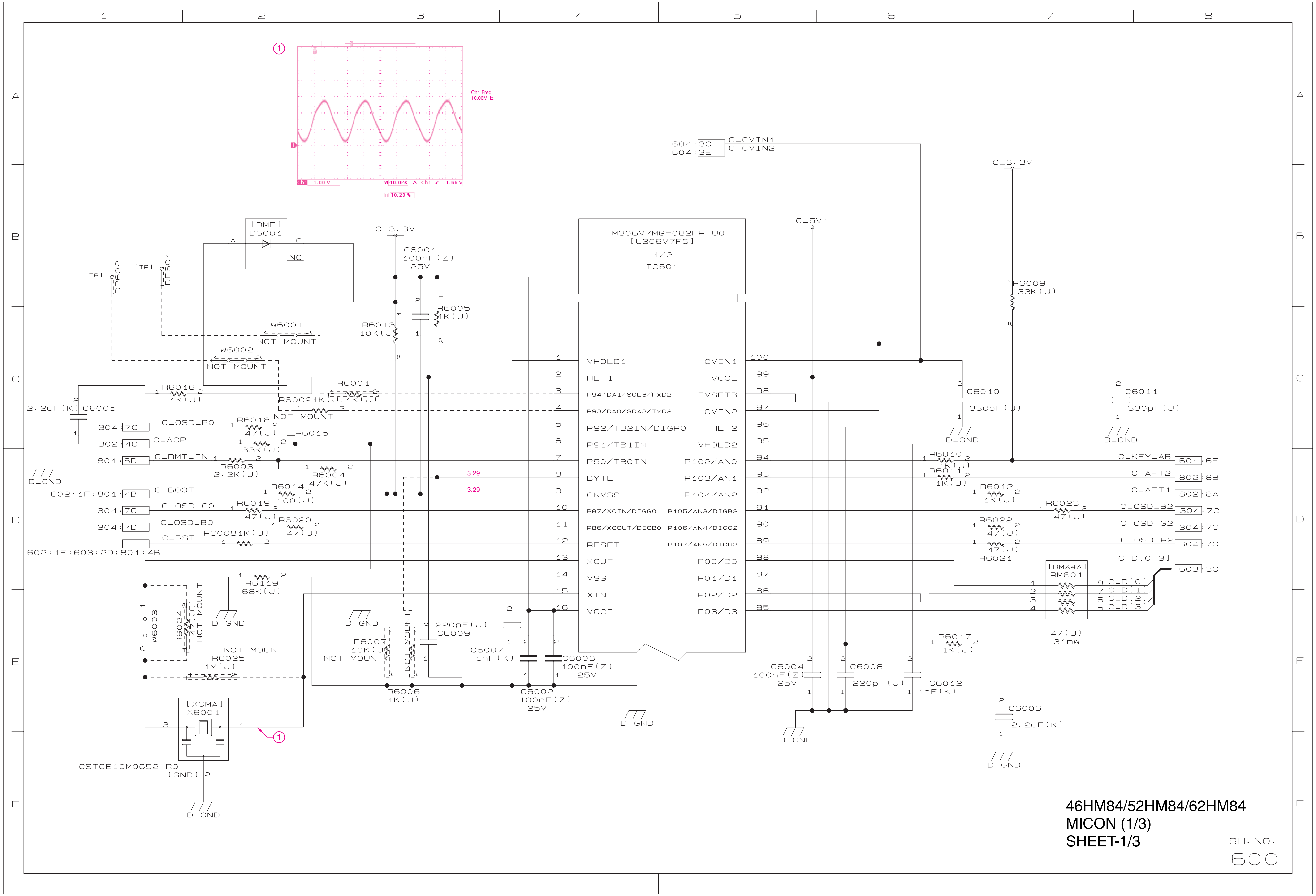

C_5V1
2SC4116-Y(TE85L)
R5029
3.9K(J)
63mW
4.6V
Q5007
4.0V
R5030
47K(J)
63mW
R5022
63mW
1K(J)
C5008
0.01U
D_GND
R5028
270(J)
63mW
2.2K(J)
R5027
63mW
[TRP]
[TRP]
Q5004
Q5006
R5025
27K(J)
63mW
605:8C
I2C1_CNT
3.3VS_11
213:3B:601:2D:802:4D
TV_SCL1
BUS SWITCH
[CL1G125]
IC506
OE
A
Y
[VCC]
[GND]
BEP_SCL1
501:7A
Q5001
2SK2035
[MFN]
[SBD]
D5001
R5026
27K(J)
63mW
R5023
270(J)
63mW
2.2K(J)
R5024
63mW
Q5003
Q5005
10V
1uF(Z)
C5009
TV_SDA1
213:3B:601:2D:802:4E
IC505
BEP_SDA1
501:7A
Q5002
2SK2035
D5002
C5010
213:3C:601:8A
C_BEPMRST0
in
out
IC507
C_BEPMRST
305
1C
sheet305 VHC14へ
C5011
①
②
③
④

A Reset selection circuit is in sheet305.

It intercepts by H at the time of BEP micon writing.

46HM84/52HM84/62HM84
OSD MICON 4/4

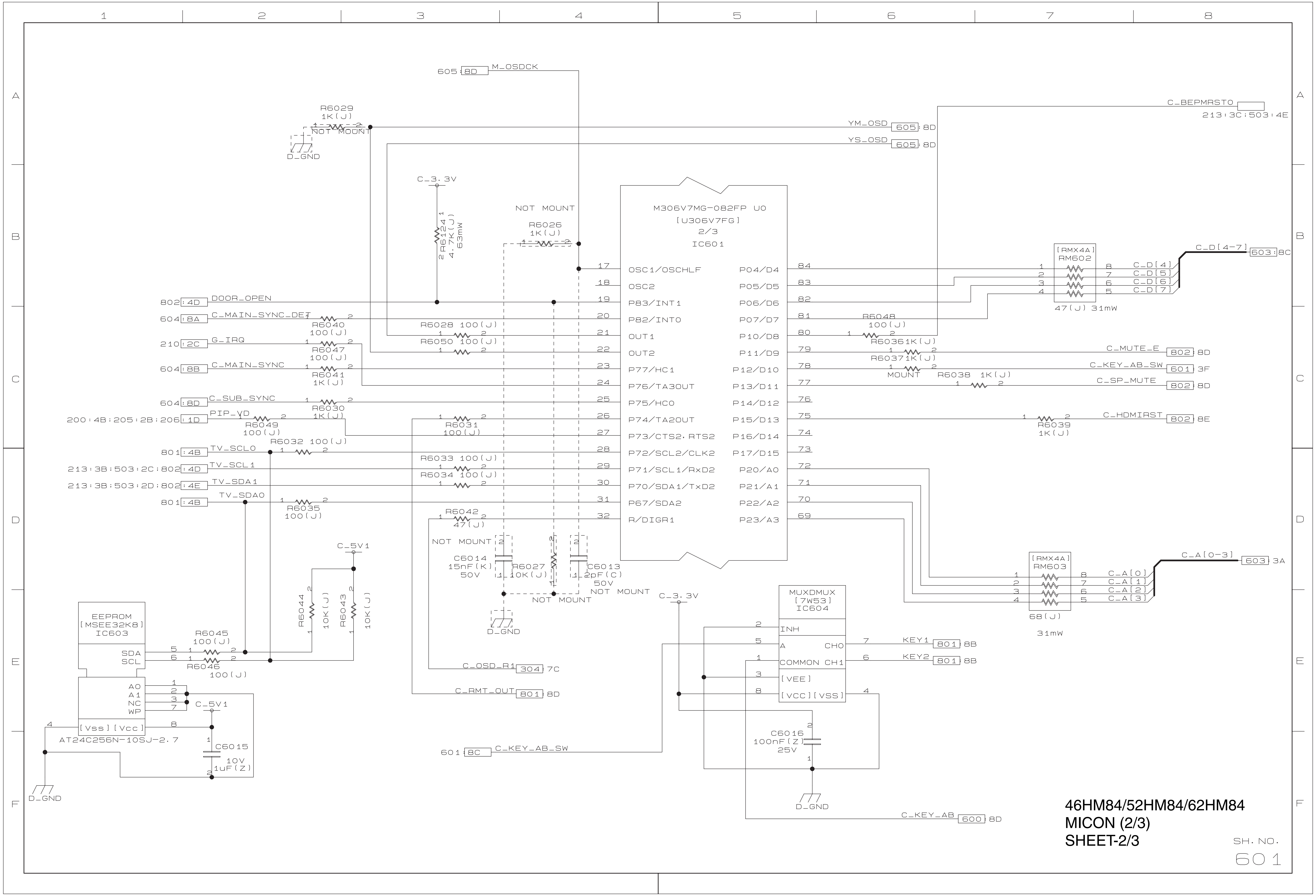
SH. NO.
503



1
Ch1 Freq. 10.06MHz
Ch1 1.00 V
M 40.0ns A Ch1 1.66 V
10.20 %
M306V7MG-082FP U0
[U306V7FG]
1/3
IC601
VHOLD1
HLF1
P94/DA1/SCL3/RxD2
P93/DA0/SDA3/TxD2
P92/TB2IN/DIGR0
P91/TB1IN
P90/TB0IN
BYTE
CNVSS
P87/XCIN/DIGG0
P86/XCOUT/DIGB0
RESET
XOUT
VSS
XIN
VCCI
CVIN1
VCCE
TVSETB
CVIN2
HLF2
VHOLD2
P102/AN0
P103/AN1
P104/AN2
P105/AN3/DIGR1
P106/AN4/DIGG2
P107/AN5/DIGR2
P00/D0
P01/D1
P02/D2
P03/D3
[DMF]
D6001
NC
C_3.3V
C_5V1
C6001
100nF(Z)
25V
R6005
1K(J)
R6013
10K(J)
[TP]
DP602
DP601
W6001
NOT MOUNT
W6002
NOT MOUNT
R6001
R6002 1K(J) 1K(J)
R6016
1K(J)
2.2uF(K) C6005
304 7C C_OSD_R0
802 4C C_ACP
801 8D C_RMT_IN
602:1F:801 4B C_BOOT
304 7C C_OSD_G0
304 7D C_OSD_B0
C_RST
602:1E:603:2D:801:4B
R6018
47(J)
R6015
33K(J)
R6003
2.2K(J)
R6004
47K(J)
R6014
100(J)
R6019
47(J)
R6020
47(J)
R6008 1K(J)
R6119
68K(J)
3.29
3.29
D_GND
W6003
R6024
47(J)
NOT MOUNT
NOT MOUNT
R6025
1M(J)
[XCMA]
X6001
CSTCE10M0G52-R0
(GND)
R6007
10K(J)
NOT MOUNT
NOT MOUNT
R6006
1K(J)
220pF(J)
C6009
C6007
1nF(K)
C6003
100nF(Z)
25V
C6002
100nF(Z)
25V
604 3C C_CVIN1
604 3E C_CVIN2
C_3.3V
R6009
33K(J)
C6010
330pF(J)
C6011
330pF(J)
R6010
1K(J)
R6011
1K(J)
R6012
1K(J)
R6023
47(J)
R6022
47(J)
47(J)
R6021
C_KEY_AB 601 6F
C_AFT2 802 8B
C_AFT1 802 8A
C_OSD_B2 304 7C
C_OSD_G2 304 7C
C_OSD_R2 304 7C
C_D[0-3] 603 3C
[RMX4A]
RM601
C_D[0]
C_D[1]
C_D[2]
C_D[3]
47(J)
31mW
R6017
1K(J)
C6004
100nF(Z)
25V
C6008
220pF(J)
C6012
1nF(K)
C6006
2.2uF(K)

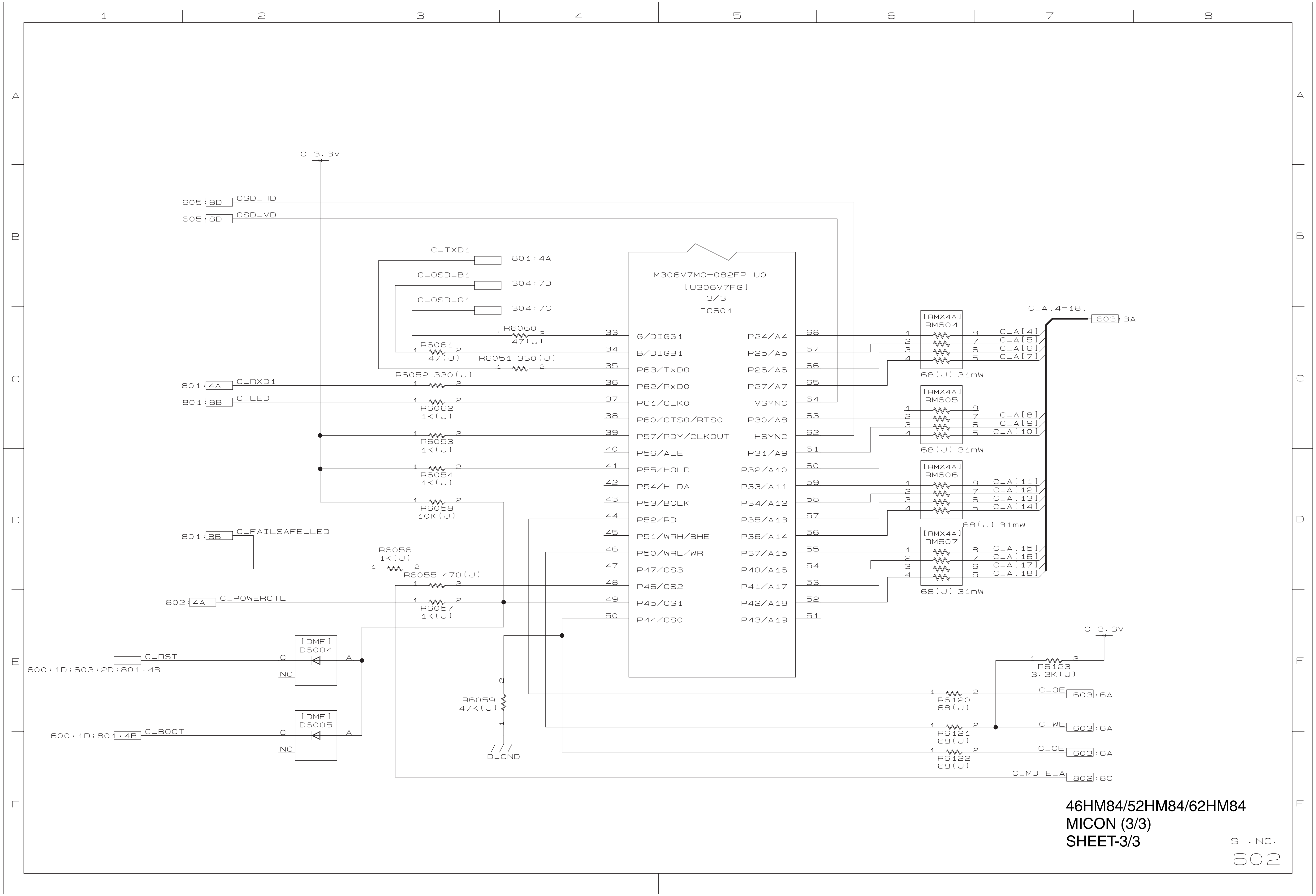
46HM84/52HM84/62HM84
MICON (1/3)
SHEET-1/3

SH. NO.
600


1
2
3
4
5
6
7
8
A
B
C
D
E
F
605:8D M_OSDCK
R6029
1K(J)
NOT MOUNT
D_GND
YM_OSD 605 8D
YS_OSD 605 8D
C_BEPMRSTO
213:3C:503:4E
C_3.3V
R6124
4.7K(J)
63mW
NOT MOUNT
R6026
1K(J)
M306V7MG-082FP U0
[U306V7FG]
2/3
IC601
17 OSC1/OSCHLF
18 OSC2
19 P83/INT1
20 P82/INT0
21 OUT1
22 OUT2
23 P77/HC1
24 P76/TA3OUT
25 P75/HC0
26 P74/TA2OUT
27 P73/CTS2.RTS2
28 P72/SCL2/CLK2
29 P71/SCL1/RxD2
30 P70/SDA1/TxD2
31 P67/SDA2
32 R/DIGR1
P04/D4 84
P05/D5 83
P06/D6 82
P07/D7 81
P10/D8 80
P11/D9 79
P12/D10 78
P13/D11 77
P14/D12 76
P15/D13 75
P16/D14 74
P17/D15 73
P20/A0 72
P21/A1 71
P22/A2 70
P23/A3 69
[RMX4A]
RM602
47(J) 31mW
C_D[4-7] 603 8C
C_D[4]
C_D[5]
C_D[6]
C_D[7]
802:4D DOOR_OPEN
604:8A C_MAIN_SYNC_DET
R6040
100(J)
R6028 100(J)
R6050 100(J)
210:2C G_IRQ
R6047
100(J)
604:8B C_MAIN_SYNC
R6041
1K(J)
604:8D C_SUB_SYNC
R6030
1K(J)
200:4B:205:2B:206:1D PIP_VD
R6049
100(J)
R6031
100(J)
R6032 100(J)
801:4B TV_SCL0
213:3B:503:2C:802:4D TV_SCL1
R6033 100(J)
213:3B:503:2D:802:4E TV_SDA1
R6034 100(J)
801:4B TV_SDA0
R6035
100(J)
R6042
47(J)
R6048
100(J)
R6036 1K(J)
R6037 1K(J)
MOUNT
R6038 1K(J)
C_MUTE_E 802 8D
C_KEY_AB_SW 601 3F
C_SP_MUTE 802 8D
C_HDMIRST 802 8E
R6039
1K(J)
NOT MOUNT
C6014
15nF(K)
50V
R6027
10K(J)
C6013
12pF(C)
50V
NOT MOUNT
NOT MOUNT
D_GND
C_5V1
R6044
10K(J)
R6043
10K(J)
EEPROM
[MSEE32K8]
IC603
SDA
SCL
R6045
100(J)
R6046
100(J)
A0
A1
NC
WP
[Vss] [Vcc]
AT24C256N-10SJ-2.7
C_5V1
C6015
10V
1uF(Z)
D_GND
C_OSD_R1 304 7C
C_RMT_OUT 801 8D
601:8C C_KEY_AB_SW
C_3.3V
MUXDMUX
[7W53]
IC604
INH
A
COMMON
[VEE]
[VCC] [VSS]
CH0
CH1
KEY1 801 8B
KEY2 801 8B
C6016
100nF(Z)
25V
D_GND
C_KEY_AB 600 8D
[RMX4A]
RM603
68(J)
31mW
C_A[0-3] 603 3A
C_A[0]
C_A[1]
C_A[2]
C_A[3]

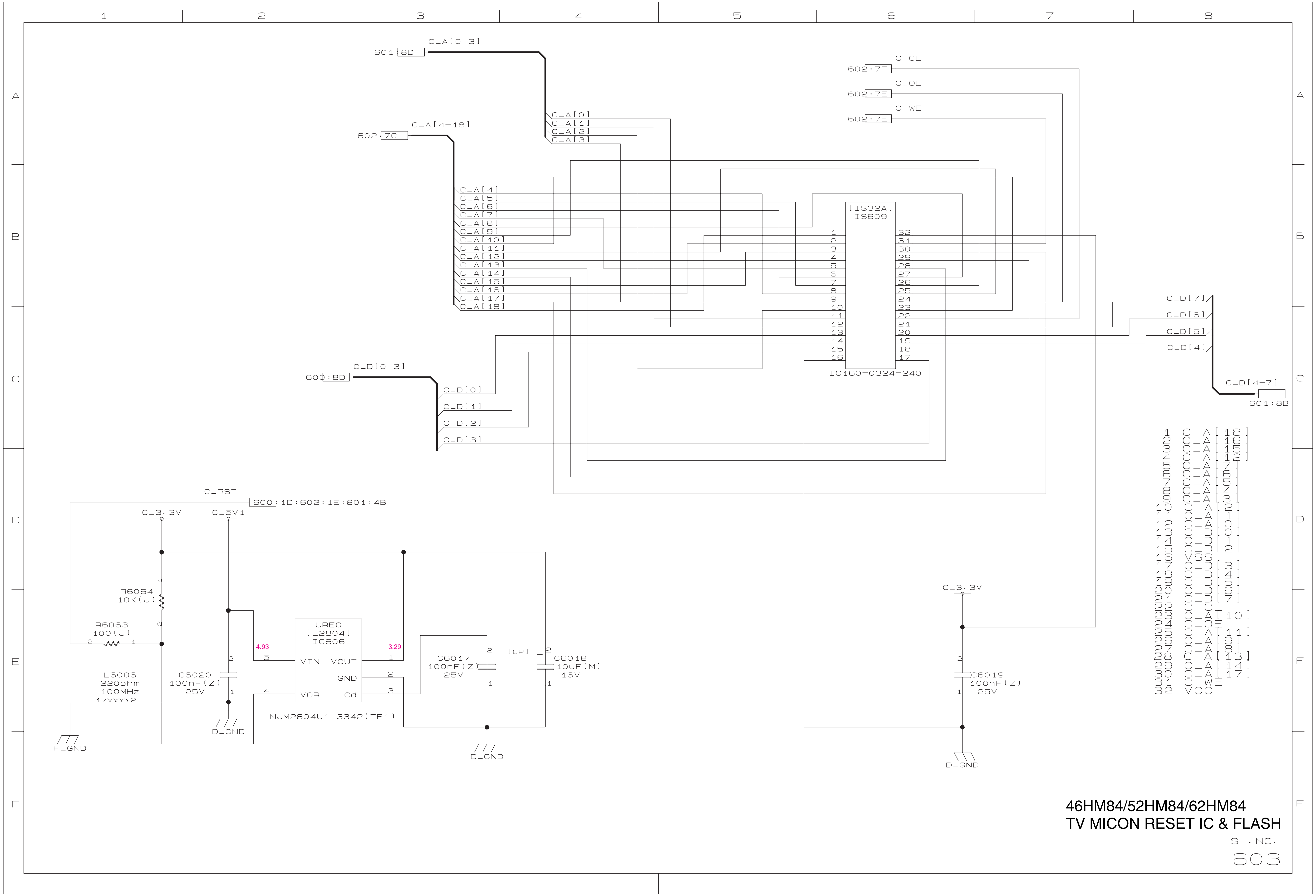
46HM84/52HM84/62HM84
MICON (2/3)
SHEET-2/3

SH. NO.
601


1
2
3
4
5
6
7
8
A
B
C
D
E
F
C_3.3V
605 8D OSD_HD
605 8D OSD_VD
C_TXD1
801:4A
C_OSD_B1
304:7D
C_OSD_G1
304:7C
M306V7MG-082FP U0
[U306V7FG]
3/3
IC601
R6060
47(J)
R6061
47(J)
R6051 330(J)
R6052 330(J)
801 4A C_RXD1
801 8B C_LED
R6062
1K(J)
R6053
1K(J)
R6054
1K(J)
R6058
10K(J)
801 8B C_FAILSAFE_LED
R6056
1K(J)
R6055 470(J)
802 4A C_POWERCTL
R6057
1K(J)
33 G/DIGG1
34 B/DIGB1
35 P63/TxD0
36 P62/RxD0
37 P61/CLK0
38 P60/CTS0/RTS0
39 P57/RDY/CLKOUT
40 P56/ALE
41 P55/HOLD
42 P54/HLDA
43 P53/BCLK
44 P52/RD
45 P51/WRH/BHE
46 P50/WRL/WR
47 P47/CS3
48 P46/CS2
49 P45/CS1
50 P44/CS0
P24/A4 68
P25/A5 67
P26/A6 66
P27/A7 65
VSYNC 64
P30/A8 63
HSYNC 62
P31/A9 61
P32/A10 60
P33/A11 59
P34/A12 58
P35/A13 57
P36/A14 56
P37/A15 55
P40/A16 54
P41/A17 53
P42/A18 52
P43/A19 51
[RMX4A]
RM604
68(J) 31mW
[RMX4A]
RM605
68(J) 31mW
[RMX4A]
RM606
68(J) 31mW
[RMX4A]
RM607
68(J) 31mW
C_A[4-18]
603 3A
C_A[4]
C_A[5]
C_A[6]
C_A[7]
C_A[8]
C_A[9]
C_A[10]
C_A[11]
C_A[12]
C_A[13]
C_A[14]
C_A[15]
C_A[16]
C_A[17]
C_A[18]
[DMF]
D6004
C_RST
600:1D:603:2D:801:4B
[DMF]
D6005
C_BOOT
600:1D:801:4B
C
NC
A
R6059
47K(J)
D_GND
C_3.3V
R6123
3.3K(J)
R6120
68(J)
C_OE
603 6A
R6121
68(J)
C_WE
603 6A
R6122
68(J)
C_CE
603 6A
C_MUTE_A
802 8C

46HM84/52HM84/62HM84
MICON (3/3)
SHEET-3/3

SH. NO.
602


1
2
3
4
5
6
7
8
A
B
C
D
E
F
C_A[0-3]
601:8D
C_A[4-18]
602:7C
C_A[0]
C_A[1]
C_A[2]
C_A[3]
C_A[4]
C_A[5]
C_A[6]
C_A[7]
C_A[8]
C_A[9]
C_A[10]
C_A[11]
C_A[12]
C_A[13]
C_A[14]
C_A[15]
C_A[16]
C_A[17]
C_A[18]
C_CE
602:7F
C_OE
602:7E
C_WE
602:7E
[IS32A]
IS609
IC160-0324-240
C_D[7]
C_D[6]
C_D[5]
C_D[4]
C_D[4-7]
601:8B
C_D[0-3]
600:8D
C_D[0]
C_D[1]
C_D[2]
C_D[3]
C_RST
600 1D:602:1E:801:4B
C_3.3V
C_5V1
R6064
10K(J)
R6063
100(J)
L6006
220ohm
100MHz
F_GND
C6020
100nF(Z)
25V
D_GND
4.93
3.29
UREG
[L2804]
IC606
VIN
VOUT
GND
VOR
Cd
NJM2804U1-3342(TE1)
C6017
100nF(Z)
25V
[CP]
C6018
10uF(M)
16V
D_GND
C_3.3V
C6019
100nF(Z)
25V
D_GND

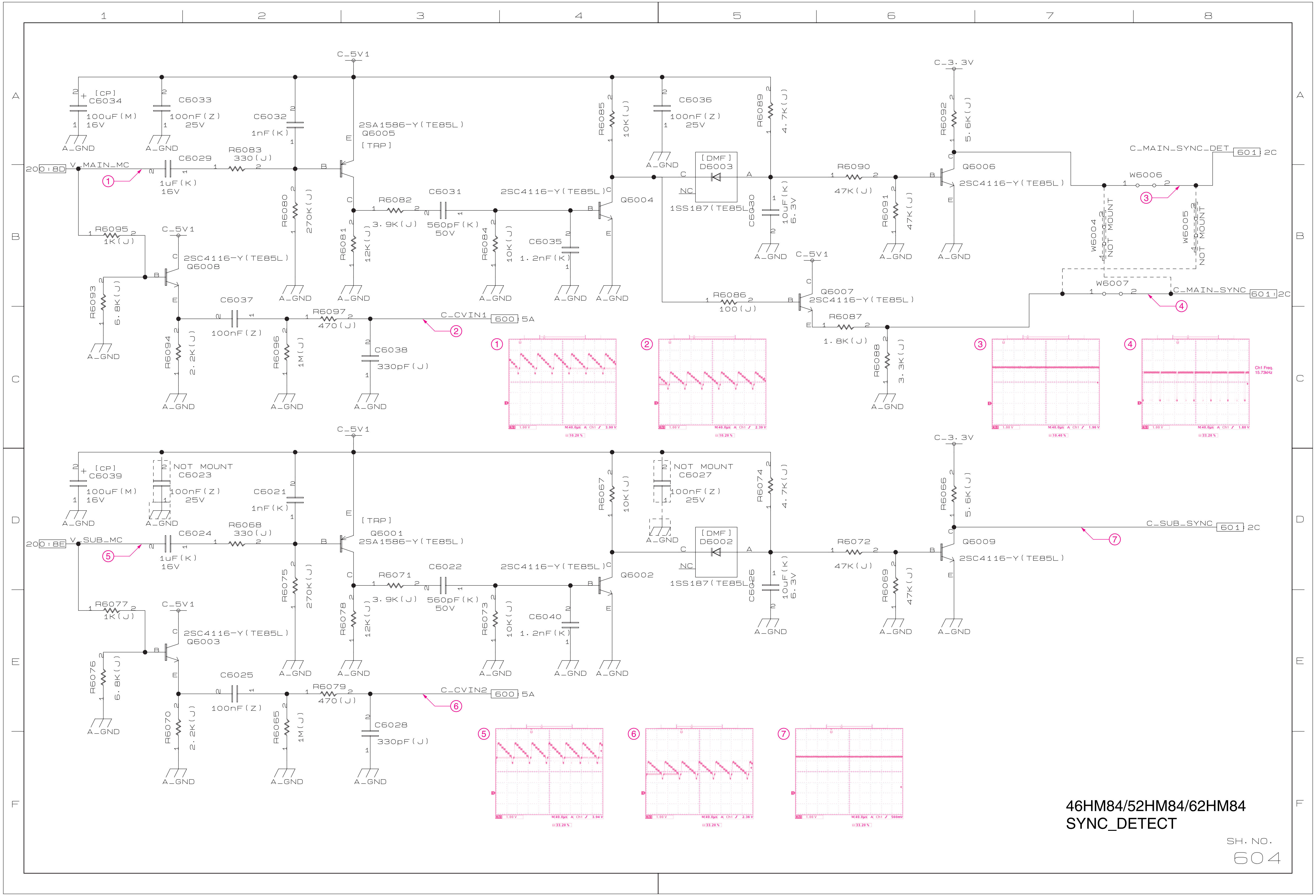
1	C_A[18]
2	C_A[16]
3	C_A[15]
4	C_A[12]
5	C_A[7]
6	C_A[6]
7	C_A[5]
8	C_A[4]
9	C_A[3]
10	C_A[2]
11	C_A[1]
12	C_A[0]
13	C_D[0]
14	C_D[1]
15	C_D[2]
16	VSS
17	C_D[3]
18	C_D[4]
19	C_D[5]
20	C_D[6]
21	C_D[7]
22	C_CE
23	C_A[10]
24	C_OE
25	C_A[11]
26	C_A[9]
27	C_A[8]
28	C_A[13]
29	C_A[14]
30	C_A[17]
31	C_WE
32	VCC

46HM84/52HM84/62HM84

TV MICON RESET IC & FLASH

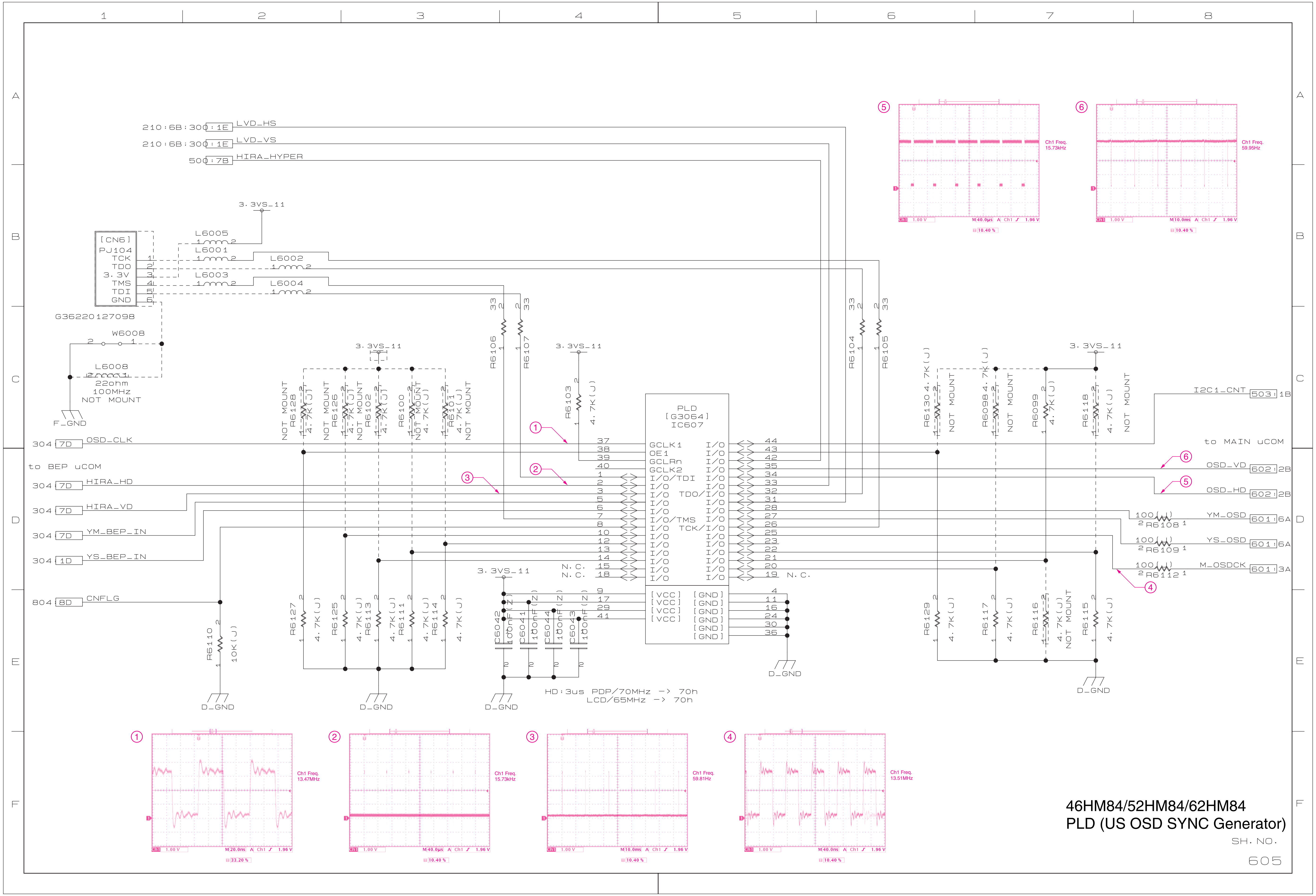
SH. NO.

603


1
2
3
4
5
6
7
8
A
B
C
D
E
F
C_5V1
C_3.3V
[CP]
C6034
100uF(M)
16V
A_GND
C6033
100nF(Z)
25V
C6032
1nF(K)
2SA1586-Y(TE85L)
Q6005
[TRP]
200:8D
V_MAIN_MC
C6029
1uF(K)
16V
R6083
330(J)
R6080
270K(J)
R6081
12K(J)
R6082
3.9K(J)
C6031
560pF(K)
50V
R6084
10K(J)
C6035
1.2nF(K)
2SC4116-Y(TE85L)
Q6004
R6085
10K(J)
C6036
100nF(Z)
25V
[DMF]
D6003
1SS187(TE85L)
NC
R6089
4.7K(J)
C6030
10uF(K)
6.3V
R6090
47K(J)
R6091
47K(J)
R6092
5.6K(J)
Q6006
2SC4116-Y(TE85L)
C_MAIN_SYNC_DET
601:2C
W6006
W6004
NOT MOUNT
W6005
NOT MOUNT
W6007
C_MAIN_SYNC
601:2C
R6095
1K(J)
2SC4116-Y(TE85L)
Q6008
R6093
6.8K(J)
C6037
100nF(Z)
R6094
2.2K(J)
R6096
1M(J)
R6097
470(J)
C6038
330pF(J)
C_CVIN1
600:5A
R6086
100(J)
Q6007
2SC4116-Y(TE85L)
R6087
1.8K(J)
R6088
3.3K(J)
①
②
③
④
Ch1 Freq
15.73kHz
[CP]
C6039
100uF(M)
16V
NOT MOUNT
C6023
100nF(Z)
25V
C6021
1nF(K)
[TRP]
Q6001
2SA1586-Y(TE85L)
200:8E
V_SUB_MC
C6024
1uF(K)
16V
R6068
330(J)
R6075
270K(J)
R6078
12K(J)
R6071
3.9K(J)
C6022
560pF(K)
50V
R6073
10K(J)
C6040
1.2nF(K)
2SC4116-Y(TE85L)
Q6002
R6067
10K(J)
NOT MOUNT
C6027
100nF(Z)
25V
[DMF]
D6002
1SS187(TE85L)
R6074
4.7K(J)
C6026
10uF(K)
6.3V
R6072
47K(J)
R6069
47K(J)
R6066
5.6K(J)
Q6009
2SC4116-Y(TE85L)
C_SUB_SYNC
601:2C
R6077
1K(J)
2SC4116-Y(TE85L)
Q6003
R6076
6.8K(J)
C6025
100nF(Z)
R6070
2.2K(J)
R6065
1M(J)
R6079
470(J)
C6028
330pF(J)
C_CVIN2
600:5A
⑤
⑥
⑦

46HM84/52HM84/62HM84
SYNC_DETECT

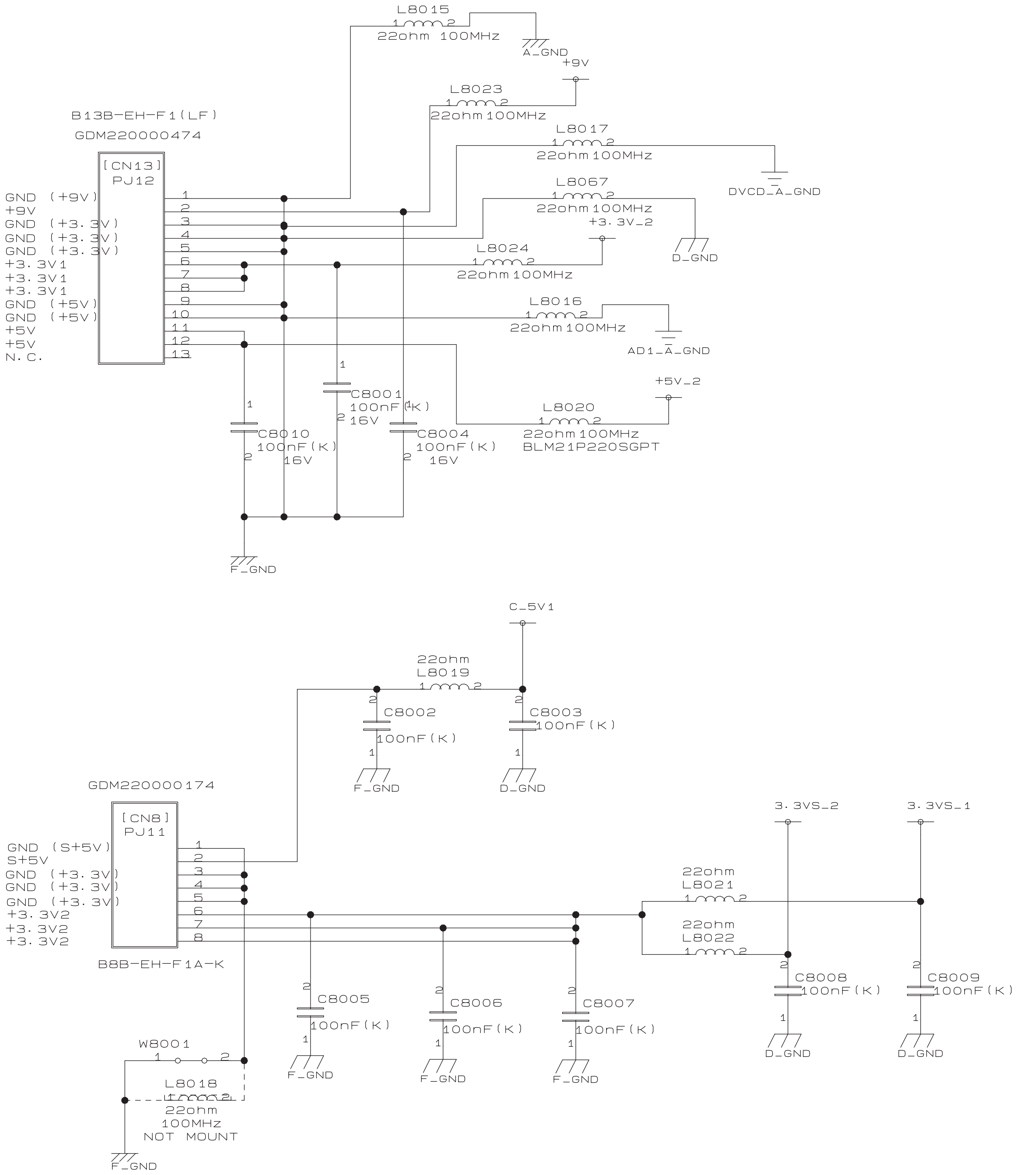
SH. NO.
604



1
2
3
4
5
6
7
8
A
B
C
D
E
F
210:6B:300:1E LVD_HS
210:6B:300:1E LVD_VS
500:7B HIRA_HYPER
3.3VS_11
[CN6]
PJ104
TCK
TDO
3.3V
TMS
TDI
GND
G36220127098
L6005
L6001
L6002
L6003
L6004
W6008
L6008
22ohm
100MHz
NOT MOUNT
F_GND
R6106
R6107
R6104
R6105
33
R6103
4.7K(J)
R6128
R6126
R6102
R6100
R6101
NOT MOUNT
4.7K(J)
R6130
R6098
R6099
R6118
I2C1_CNT
503:1B
to MAIN uCOM
OSD_VD
602:2B
OSD_HD
602:2B
YM_OSD
601:6A
R6108
YS_OSD
601:6A
R6109
M_OSDCK
601:3A
R6112
100(J)
304:7D OSD_CLK
to BEP uCOM
304:7D HIRA_HD
304:7D HIRA_VD
304:7D YM_BEP_IN
304:1D YS_BEP_IN
804:8D CNFLG
R6110
10K(J)
D_GND
PLD
[G3064]
IC607
GCLK1
OE1
GCLRn
GCLK2
I/O/TDI
I/O
TDO/I/O
I/O/TMS
TCK/I/O
[VCC]
[GND]
N.C.
R6127
R6125
R6113
R6111
R6114
C6042
C6041
C6044
C6043
100nF(Z)
R6129
R6117
R6116
R6115
HD:3us PDP/70MHz -> 70h
LCD/65MHz -> 70h
①
②
③
④
⑤
⑥
Ch1 Freq. 13.47MHz
Ch1 Freq. 15.73kHz
Ch1 Freq. 59.81Hz
Ch1 Freq. 13.51MHz
Ch1 Freq. 15.73kHz
Ch1 Freq. 59.95Hz

46HM84/52HM84/62HM84
PLD (US OSD SYNC Generator)

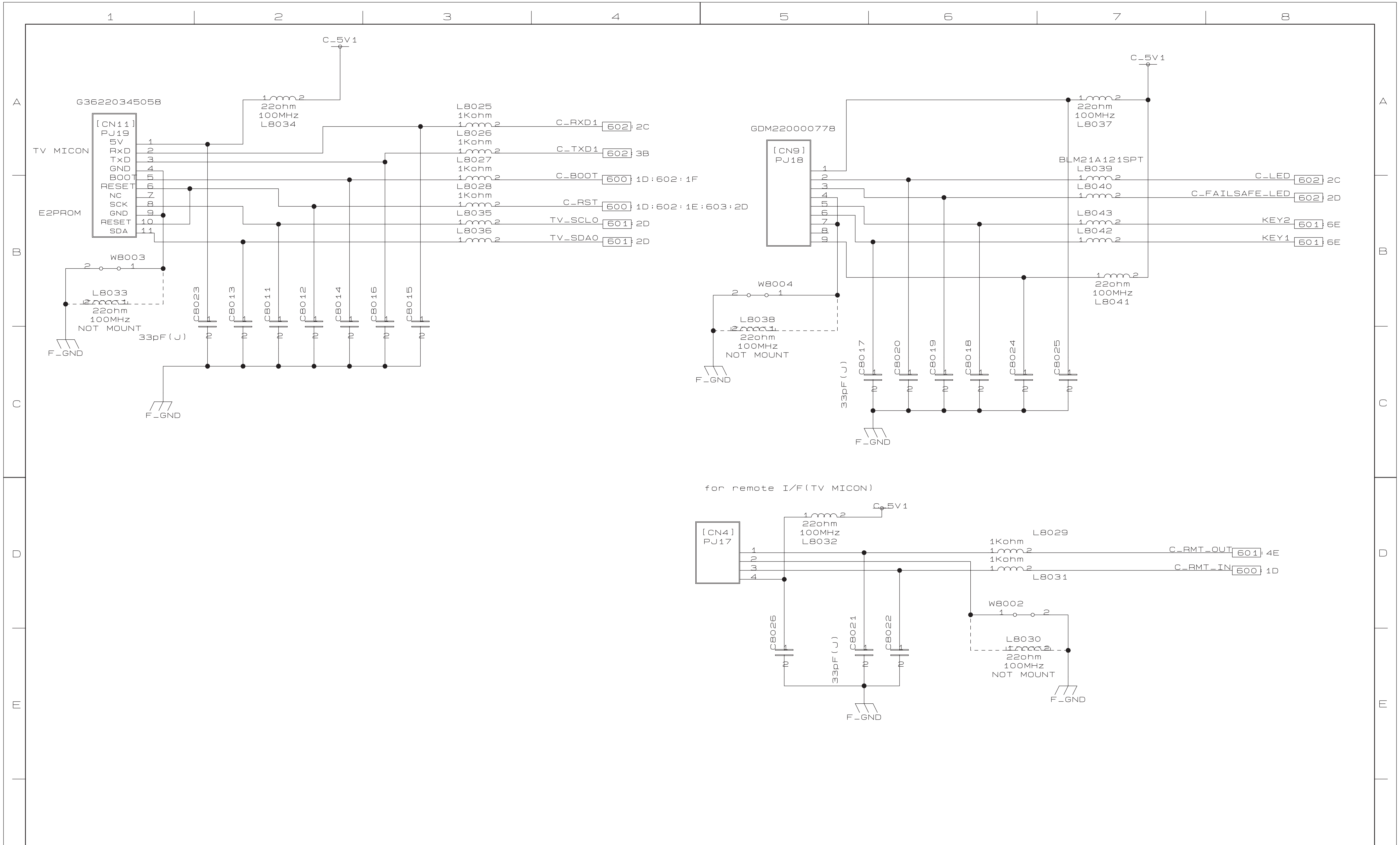
SH. NO.
605



L8015
1 2
22ohm 100MHz
A_GND
+9V
L8023
22ohm 100MHz
L8017
22ohm 100MHz
DVCD_A_GND
L8067
22ohm 100MHz
+3.3V_2
D_GND
L8024
22ohm 100MHz
L8016
22ohm 100MHz
AD1_A_GND
+5V_2
L8020
22ohm 100MHz
BLM21P220SGPT
B13B-EH-F1(LF)
GDM220000474
[CN13]
PJ12
GND (+9V)
+9V
GND (+3.3V)
GND (+3.3V)
GND (+3.3V)
+3.3V1
+3.3V1
+3.3V1
GND (+5V)
GND (+5V)
+5V
+5V
N.C.
1
2
3
4
5
6
7
8
9
10
11
12
13
C8001
100nF(K)
16V
C8010
100nF(K)
16V
C8004
100nF(K)
16V
F_GND
C_5V1
22ohm
L8019
C8002
100nF(K)
F_GND
C8003
100nF(K)
D_GND
GDM220000174
[CN8]
PJ11
GND (S+5V)
S+5V
GND (+3.3V)
GND (+3.3V)
GND (+3.3V)
+3.3V2
+3.3V2
+3.3V2
B8B-EH-F1A-K
3.3VS_2
3.3VS_1
22ohm
L8021
22ohm
L8022
C8005
100nF(K)
F_GND
C8006
100nF(K)
F_GND
C8007
100nF(K)
F_GND
C8008
100nF(K)
D_GND
C8009
100nF(K)
D_GND
W8001
L8018
22ohm
100MHz
NOT MOUNT
F_GND

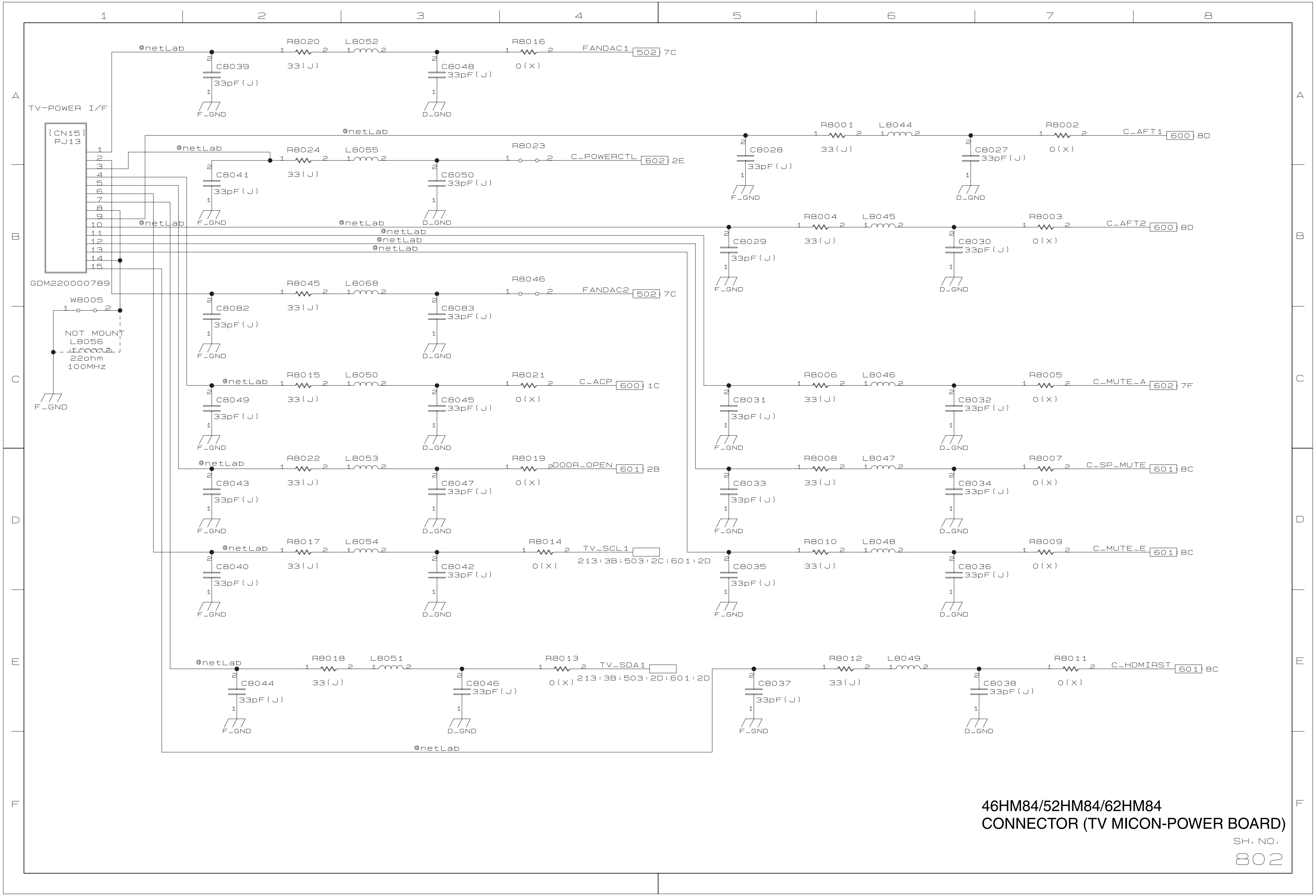
46HM84/52HM84/62HM84
POWER_CONNECTOR

SH. NO.
800


1
2
3
4
5
6
7
8
A
B
C
D
E
F
C_5V1
G36220345058
[CN11]
PJ19
TV MICON
5V
RxD
TxD
GND
BOOT
RESET
NC
SCK
GND
RESET
SDA
E2PROM
1
2
3
4
5
6
7
8
9
10
11
22ohm
100MHz
L8034
L8025
1Kohm
L8026
1Kohm
L8027
1Kohm
L8028
1Kohm
L8035
L8036
C_RXD1
602 2C
C_TXD1
602 3B
C_BOOT
600 1D:602:1F
C_RST
600 1D:602:1E:603:2D
TV_SCL0
601 2D
TV_SDA0
601 2D
W8003
L8033
22ohm
100MHz
NOT MOUNT
F_GND
C8023
C8013
C8011
C8012
C8014
C8016
C8015
33pF(J)
F_GND
GDM220000778
[CN9]
PJ18
22ohm
100MHz
L8037
BLM21A121SPT
L8039
L8040
L8043
L8042
C_LED
602 2C
C_FAILSAFE_LED
602 2D
KEY2
601 6E
KEY1
601 6E
22ohm
100MHz
L8041
W8004
L8038
22ohm
100MHz
NOT MOUNT
F_GND
C8017
C8020
C8019
C8018
C8024
C8025
33pF(J)
F_GND
for remote I/F(TV MICON)
C_5V1
[CN4]
PJ17
22ohm
100MHz
L8032
L8029
1Kohm
1Kohm
L8031
C_RMT_OUT
601 4E
C_RMT_IN
600 1D
W8002
L8030
22ohm
100MHz
NOT MOUNT
F_GND
C8026
C8021
C8022
33pF(J)
F_GND

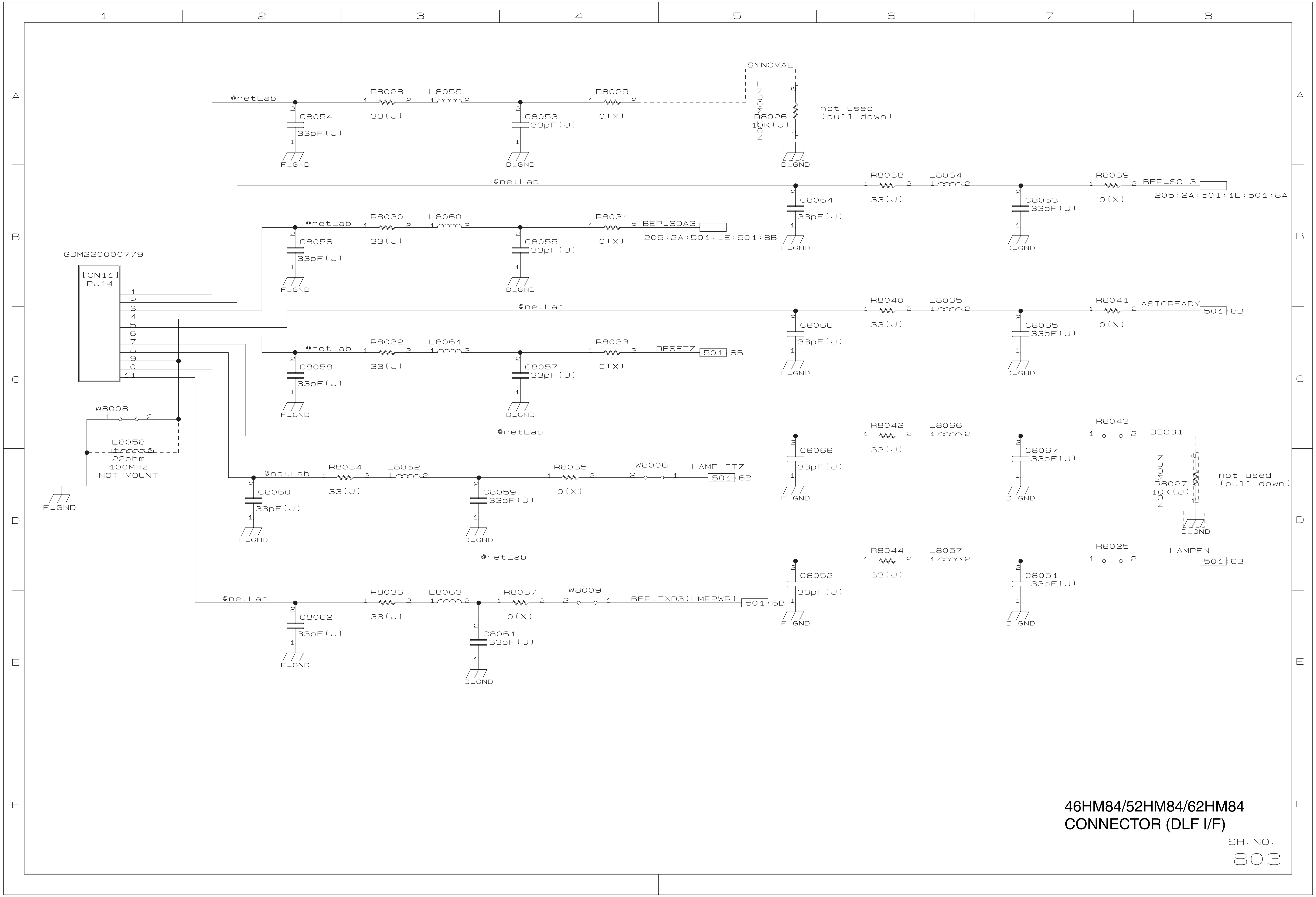
46HM84/52HM84/62HM84
TV MICON CONNECTOR (1)

SH. NO.
801


TV-POWER I/F
[CN15]
PJ13
GDM220000789
W8005
NOT MOUNT
L8056
22ohm
100MHz
F_GND
D_GND
@netLab
R8020 33(J)
L8052
C8039 33pF(J)
C8048 33pF(J)
R8016 0(X)
FANDAC1 502 7C
R8001 33(J)
L8044
R8002 0(X)
C_AFT1 600 8D
C8028 33pF(J)
C8027 33pF(J)
R8024 33(J)
L8055
C8041 33pF(J)
C8050 33pF(J)
R8023
C_POWERCTL 602 2E
R8004 33(J)
L8045
R8003 0(X)
C_AFT2 600 8D
C8029 33pF(J)
C8030 33pF(J)
R8045 33(J)
L8068
R8046
FANDAC2 502 7C
C8082 33pF(J)
C8083 33pF(J)
R8015 33(J)
L8050
R8021 0(X)
C_ACP 600 1C
C8049 33pF(J)
C8045 33pF(J)
R8006 33(J)
L8046
R8005 0(X)
C_MUTE_A 602 7F
C8031 33pF(J)
C8032 33pF(J)
R8022 33(J)
L8053
R8019 0(X)
DOOR_OPEN 601 2B
C8043 33pF(J)
C8047 33pF(J)
R8008 33(J)
L8047
R8007 0(X)
C_SP_MUTE 601 8C
C8033 33pF(J)
C8034 33pF(J)
R8017 33(J)
L8054
R8014 0(X)
TV_SCL1
213:3B:503:2C:601:2D
C8040 33pF(J)
C8042 33pF(J)
R8010 33(J)
L8048
R8009 0(X)
C_MUTE_E 601 8C
C8035 33pF(J)
C8036 33pF(J)
R8018 33(J)
L8051
R8013 0(X)
TV_SDA1
213:3B:503:2D:601:2D
C8044 33pF(J)
C8046 33pF(J)
R8012 33(J)
L8049
R8011 0(X)
C_HDMIRST 601 8C
C8037 33pF(J)
C8038 33pF(J)
1 2 3 4 5 6 7 8
A B C D E F

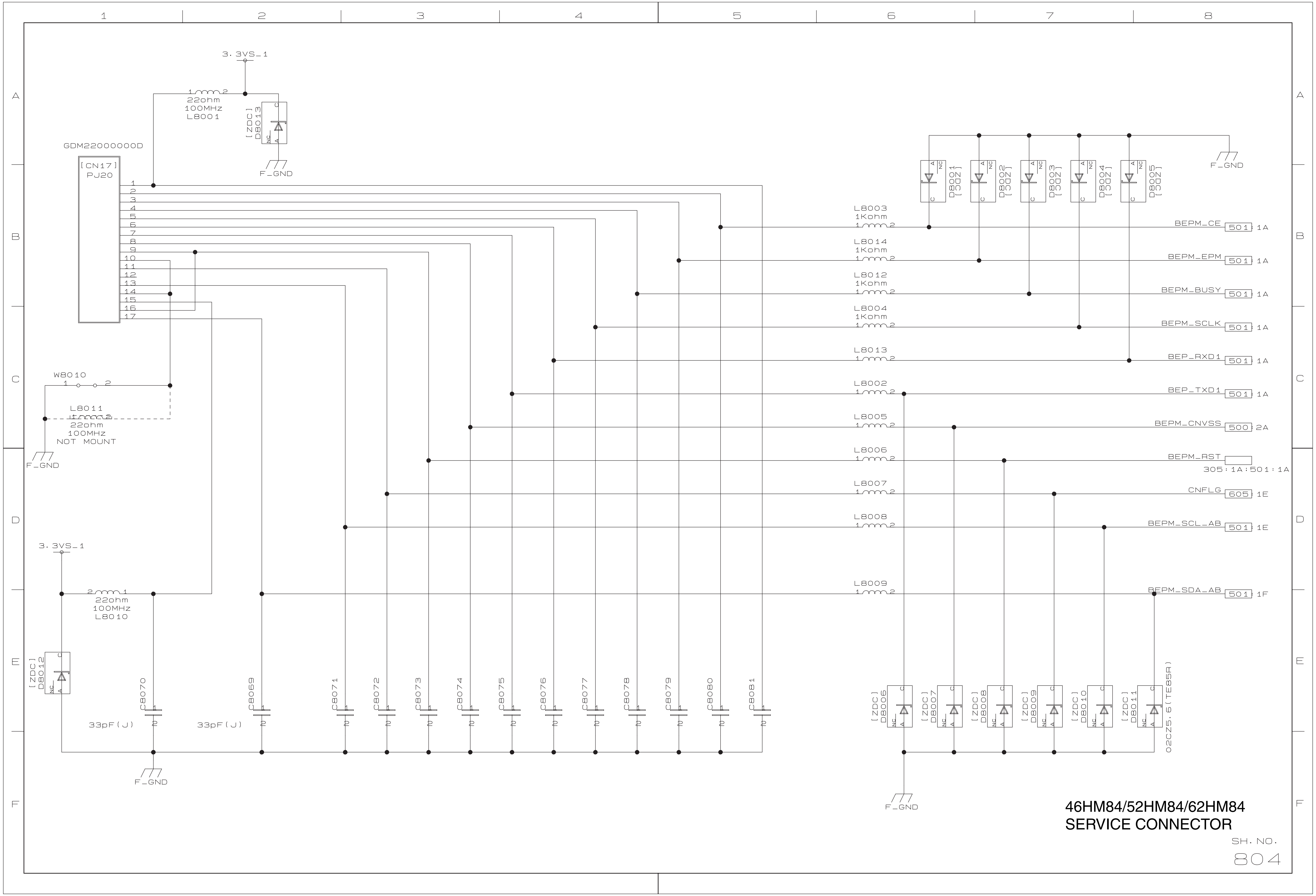
46HM84/52HM84/62HM84
CONNECTOR (TV MICON-POWER BOARD)

SH. NO.
802


GDM220000779
[CN11]
PJ14
SYNCVAL
NOT MOUNT
R8026
10K(J)
not used
(pull down)
@netLab
R8028 33(J)
L8059
C8054 33pF(J)
C8053 33pF(J)
R8029 0(X)
R8038 33(J)
L8064
R8039 0(X)
BEP_SCL3
205:2A:501:1E:501:8A
C8064 33pF(J)
C8063 33pF(J)
R8030 33(J)
L8060
R8031 0(X)
BEP_SDA3
205:2A:501:1E:501:8B
C8056 33pF(J)
C8055 33pF(J)
R8040 33(J)
L8065
R8041 0(X)
ASICREADY
501:8B
C8066 33pF(J)
C8065 33pF(J)
R8032 33(J)
L8061
R8033 0(X)
RESETZ
501:6B
C8058 33pF(J)
C8057 33pF(J)
W8008
L8058
220hm
100MHz
NOT MOUNT
R8042 33(J)
L8066
R8043
DIO31
R8027
10K(J)
C8068 33pF(J)
C8067 33pF(J)
R8034 33(J)
L8062
R8035 0(X)
W8006
LAMPLITZ
501:6B
C8060 33pF(J)
C8059 33pF(J)
R8044 33(J)
L8057
R8025
LAMPEN
501:6B
C8052 33pF(J)
C8051 33pF(J)
R8036 33(J)
L8063
R8037 0(X)
W8009
BEP_TXD3(LMPPWR)
501:6B
C8062 33pF(J)
C8061 33pF(J)
F_GND
D_GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

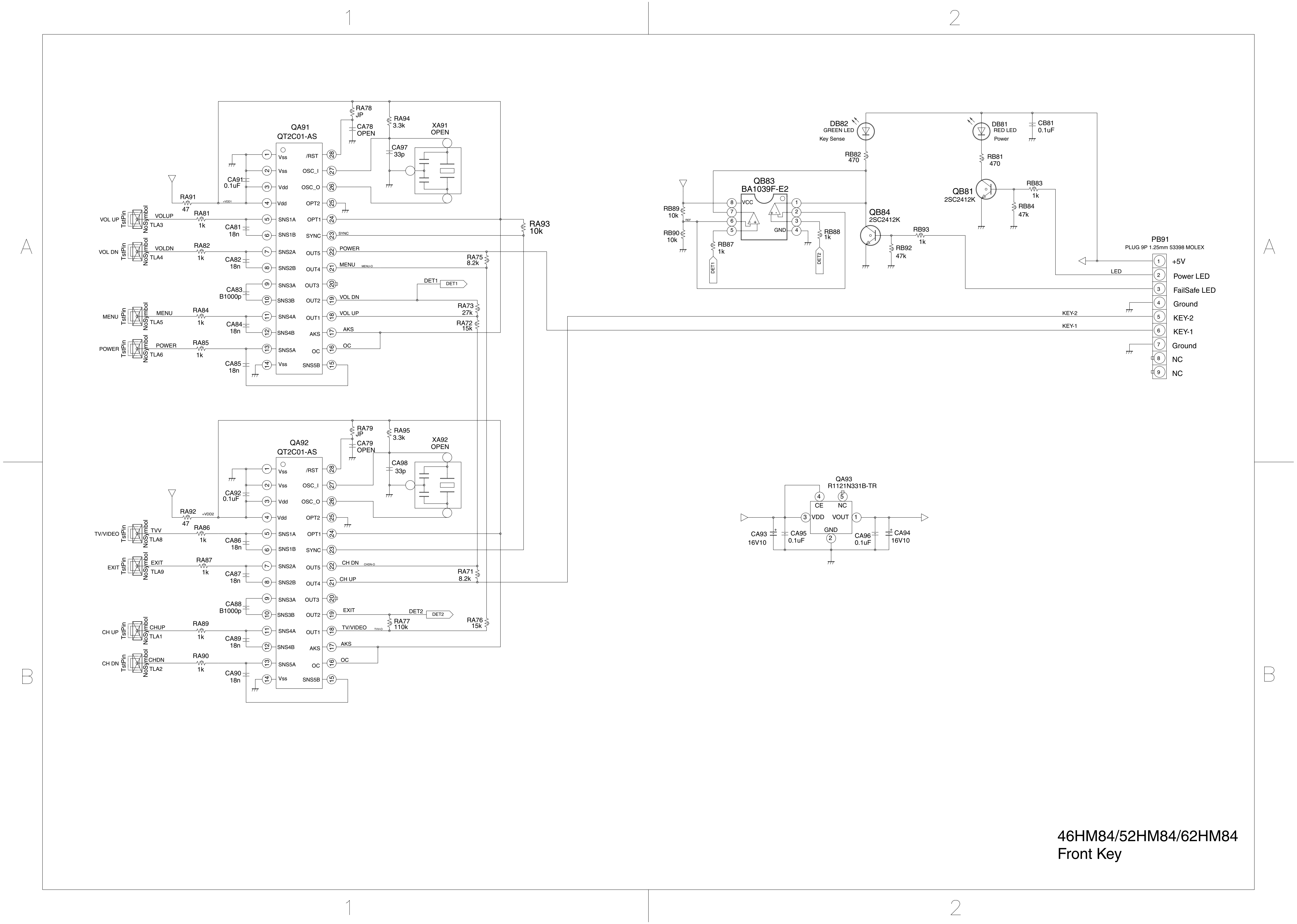
46HM84/52HM84/62HM84
CONNECTOR (DLF I/F)

SH. NO.
803

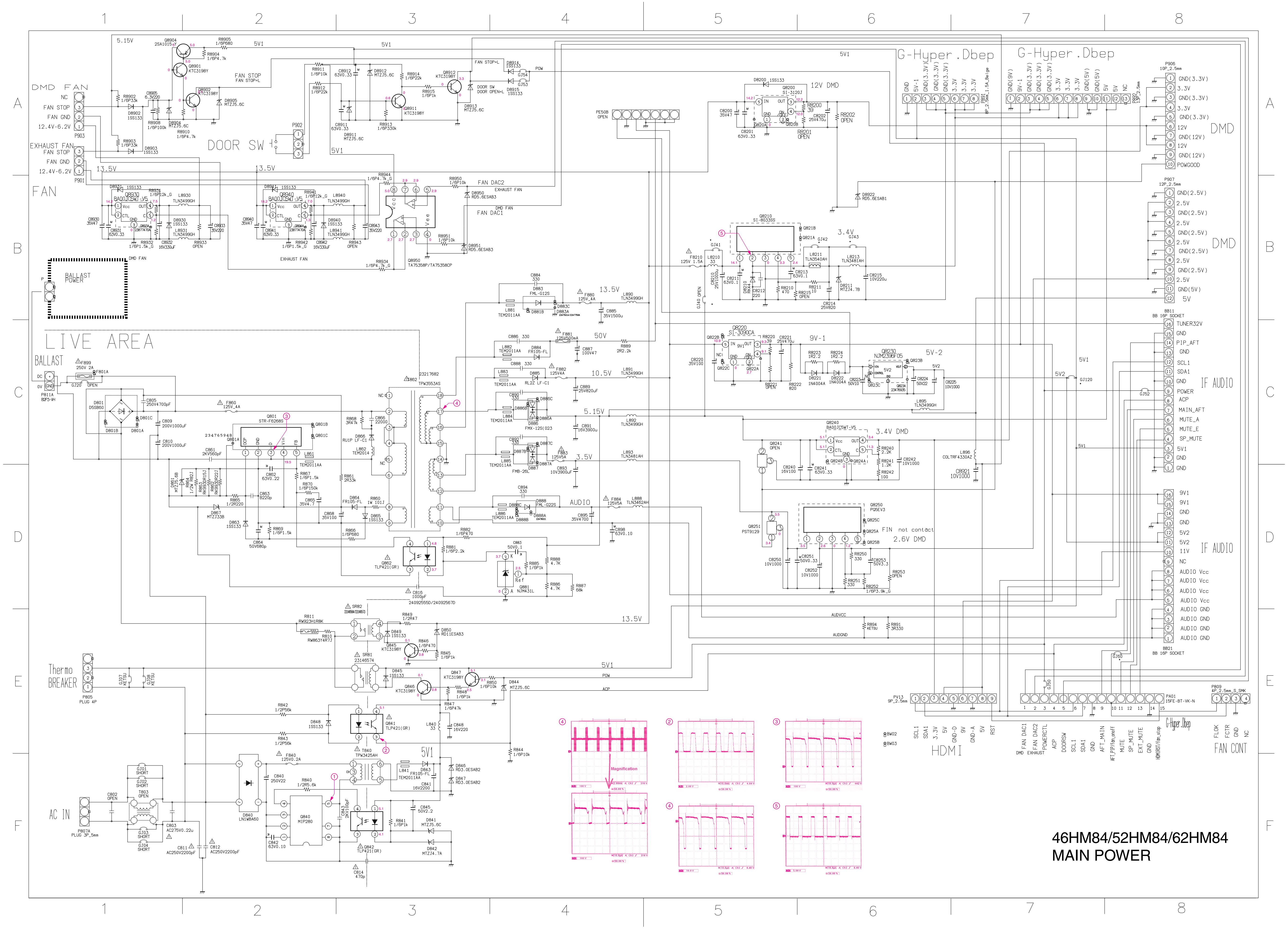

3.3VS_1
L8001
22ohm
100MHz
[ZDC]
D8013
F_GND
GDM22000000D
[CN17]
PJ20
W8010
L8011
NOT MOUNT
L8010
D8012
C8070
C8069
33pF(J)
C8071
C8072
C8073
C8074
C8075
C8076
C8077
C8078
C8079
C8080
C8081
D8001
D8002
D8003
D8004
D8005
L8003
1Kohm
L8014
L8012
L8004
L8013
L8002
L8005
L8006
L8007
L8008
L8009
BEPM_CE
501 1A
BEPM_EPM
501 1A
BEPM_BUSY
501 1A
BEPM_SCLK
501 1A
BEP_RXD1
501 1A
BEP_TXD1
501 1A
BEPM_CNVSS
500 2A
BEPM_RST
305:1A:501:1A
CNFLG
605 1E
BEPM_SCL_AB
501 1E
BEPM_SDA_AB
501 1F
D8006
D8007
D8008
D8009
D8010
D8011
02CZ5.6(TE85R)
1 2 3 4 5 6 7 8
A B C D E F

46HM84/52HM84/62HM84
SERVICE CONNECTOR

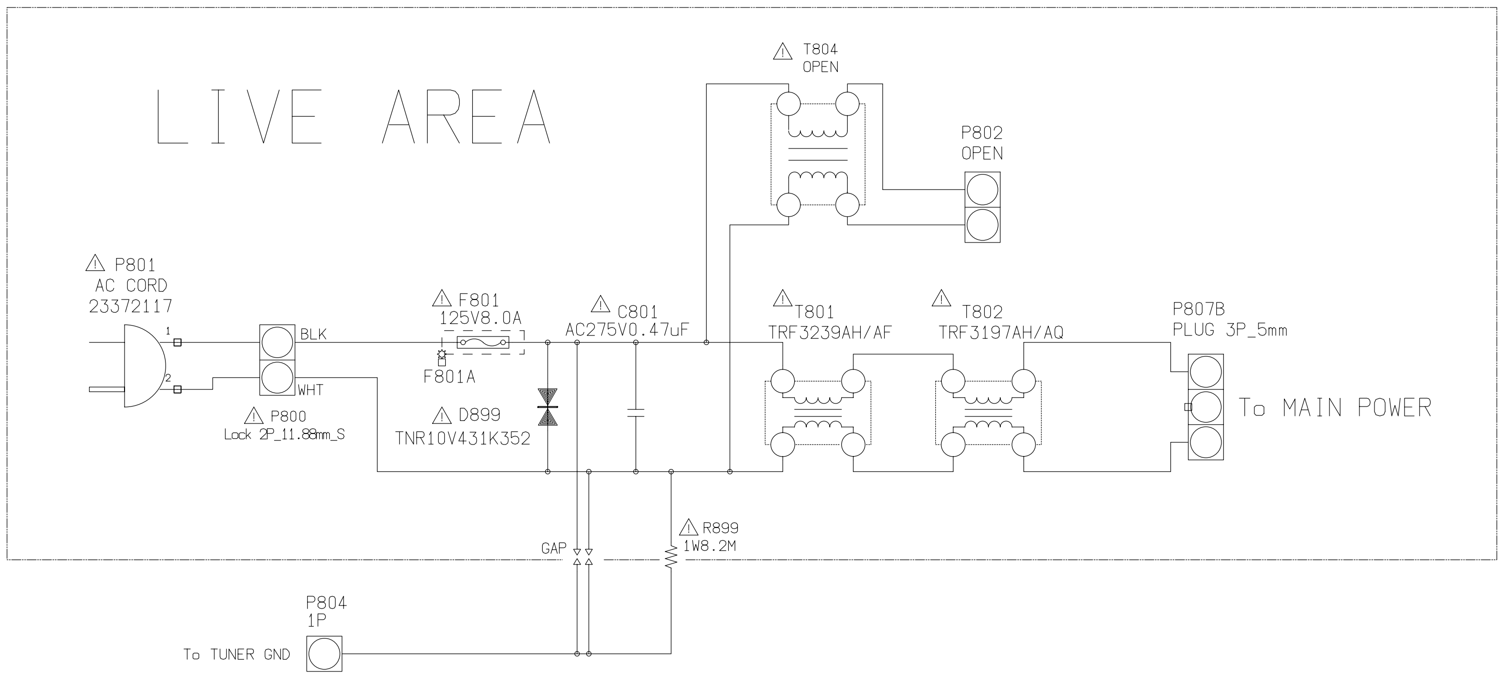
SH. NO.
804


QA91
QT2C01-AS
QA92
QT2C01-AS
Vss
Vdd
SNS1A
SNS1B
SNS2A
SNS2B
SNS3A
SNS3B
SNS4A
SNS4B
SNS5A
SNS5B
/RST
OSC_I
OSC_O
OPT2
OPT1
SYNC
OUT5
OUT4
OUT3
OUT2
OUT1
AKS
OC
RA78 JP
CA78 OPEN
RA79 JP
CA79 OPEN
RA94 3.3k
RA95 3.3k
XA91 OPEN
XA92 OPEN
CA97 33p
CA98 33p
CA91 0.1uF
CA92 0.1uF
RA91 47
RA92 47
+VDD1
+VDD2
VOL UP
VOLUP
TLA3
RA81 1k
VOL DN
VOLDN
TLA4
RA82 1k
MENU
TLA5
RA84 1k
POWER
TLA6
RA85 1k
TV/VIDEO
TVV
TLA8
RA86 1k
EXIT
TLA9
RA87 1k
CH UP
CHUP
TLA1
RA89 1k
CH DN
CHDN
TLA2
RA90 1k
TstPin
NoSymbol
CA81 18n
CA82 18n
CA83 B1000p
CA84 18n
CA85 18n
CA86 18n
CA87 18n
CA88 B1000p
CA89 18n
CA90 18n
RA93 10k
RA75 8.2k
RA73 27k
RA72 15k
RA71 8.2k
RA76 15k
RA77 110k
SYNC
POWER
MENU
MENU-O
DET1
DET2
VOL DN
VOL UP
AKS
OC
CH DN
CHDN-O
CH UP
EXIT
TV/VIDEO
TVV-O
DB82
GREEN LED
Key Sense
DB81
RED LED
Power
CB81 0.1uF
RB82 470
RB81 470
QB83
BA1039F-E2
VCC
GND
REF
RB89 10k
RB90 10k
RB87 1k
RB88 1k
QB81
2SC2412K
QB84
2SC2412K
RB83 1k
RB84 47k
RB93 1k
RB92 47k
LED
KEY-2
KEY-1
PB91
PLUG 9P 1.25mm 53398 MOLEX
+5V
Power LED
FailSafe LED
Ground
KEY-2
KEY-1
Ground
NC
NC
QA93
R1121N331B-TR
CE
NC
VDD
VOUT
GND
CA93 16V10
CA95 0.1uF
CA96 0.1uF
CA94 16V10
1
2
A
B

46HM84/52HM84/62HM84
Front Key


DMD FAN
FAN STOP
FAN GND
12.4V-6.2V
P903
EXHAUST FAN
P901
FAN
DOOR SW
P902
5.15V
5V1
13.5V
FAN STOP
FAN STOP=L
DOOR SW
DOOR OPEN=L
FAN DAC2
FAN DAC1
EXHAUST FAN
DMD FAN
BALLAST POWER
LIVE AREA
BALLAST
P811A
F899
250V 2A
F860
125V_4A
Q801
STR-F6268S
T862
23217682
TPW3553AS
50V
10.5V
5.15V
3.5V
AUDIO
13.5V
Q881
NJM431L
Q862
TLP421(GR)
SR82
SR81
23146574
Q840
MIP280
T840
TPW3425AH
Q841
TLP421(GR)
Q842
TLP421(GR)
Thermo
BREAKER
P805
PLUG 4P
AC IN
P807A
PLUG 3P_5mm
F840
125V0.2A
D840
LN1WBA60
5V1
POW
ACP
AUDVCC
AUDGND
12V DMD
Q8200
SI-3120J
PE50B
OPEN
Q8210
SI-8033SS
3.4V
F8210
125V 1.5A
Q8220
SI-3090CA
9V-1
5V-2
Q8230
NJM2396F05
Q8240
BA00JC5WT_V5
3.4V DMD
Q8241
OPEN
Q8250
PQ5EV3
FIN not contact
2.6V DMD
Q8251
PST9129
L896
COLTRF4330AZ
G-Hyper.Dbep
G-Hyper.Dbep
P906
10P_2.5mm
GND(3.3V)
3.3V
12V
GND(12V)
POWGOOD
DMD
P907
12P_2.5mm
GND(2.5V)
2.5V
GND(5V)
5V
B811
B8 16P SOCKET
TUNER32V
GND
PIP_AFT
SCL1
SDA1
POWER
ACP
MAIN_AFT
MUTE_A
MUTE_E
SP_MUTE
5V1
IF AUDIO
9V1
5V2
11V
NC
AUDIO Vcc
AUDIO GND
B821
B8 16P SOCKET
IF AUDIO
PV13
9P_2.5mm
SCL1
SDA1
3.3V
5V
GND-D
9V
GND-A
5V
RST
HDMI
PA01
15FE-BT-VK-N
FAN DAC1
FAN DAC2
DMD EXHAUST
POWERCTL
ACP
DOORSW
SCL1
SDA1
GND
AFT_MAIN
AFT_PIP/fan_on/off
MUTE
SP_MUTE
EXT_MUTE
GND
HDMIRST/fan_stop
G-Hyper.Dbep
P809
4P_2.5mm_S_SMK
FLOCK
FCTR
GND
NC
FAN CONT
Magnification
①
②
③
④
⑤
A
B
C
D
E
F
1
2
3
4
5
6
7
8

46HM84/52HM84/62HM84
MAIN POWER


LIVE AREA
⚠ T804
OPEN
P802
OPEN
⚠ P801
AC CORD
23372117
1
2
BLK
WHT
⚠ P800
Lock 2P_11.88mm_S
⚠ F801
125V8.0A
F801A
⚠ D899
TNR10V431K352
⚠ C801
AC275V0.47uF
⚠ T801
TRF3239AH/AF
⚠ T802
TRF3197AH/AQ
P807B
PLUG 3P_5mm
To MAIN POWER
GAP
⚠ R899
1W8.2M
P804
1P
To TUNER GND

46HM84/52HM84/62HM84
AC IN

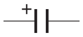
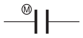
SCHEMATIC DIAGRAM

MODEL : 46HM84/52HM84/62HM84

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

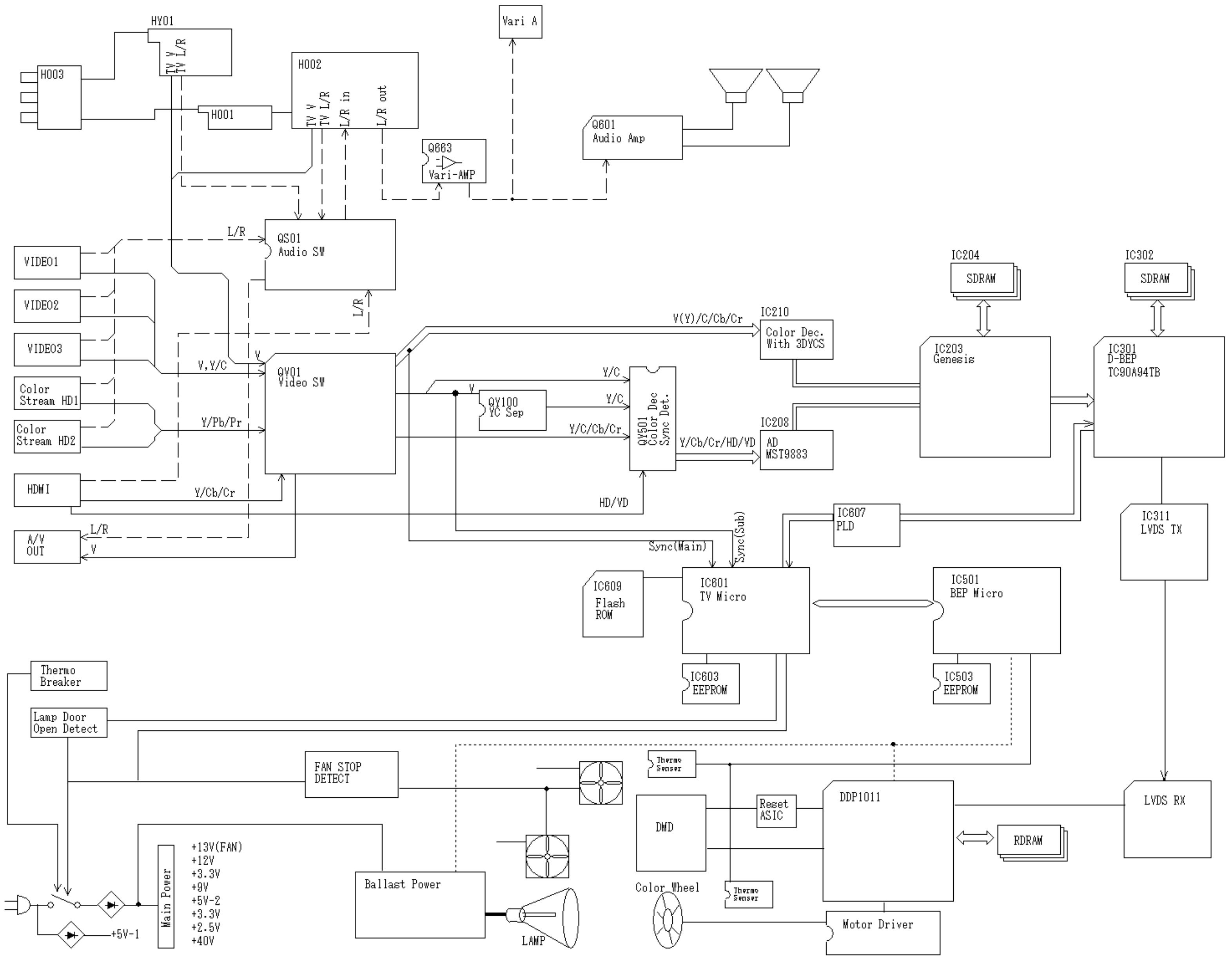
NOTE:

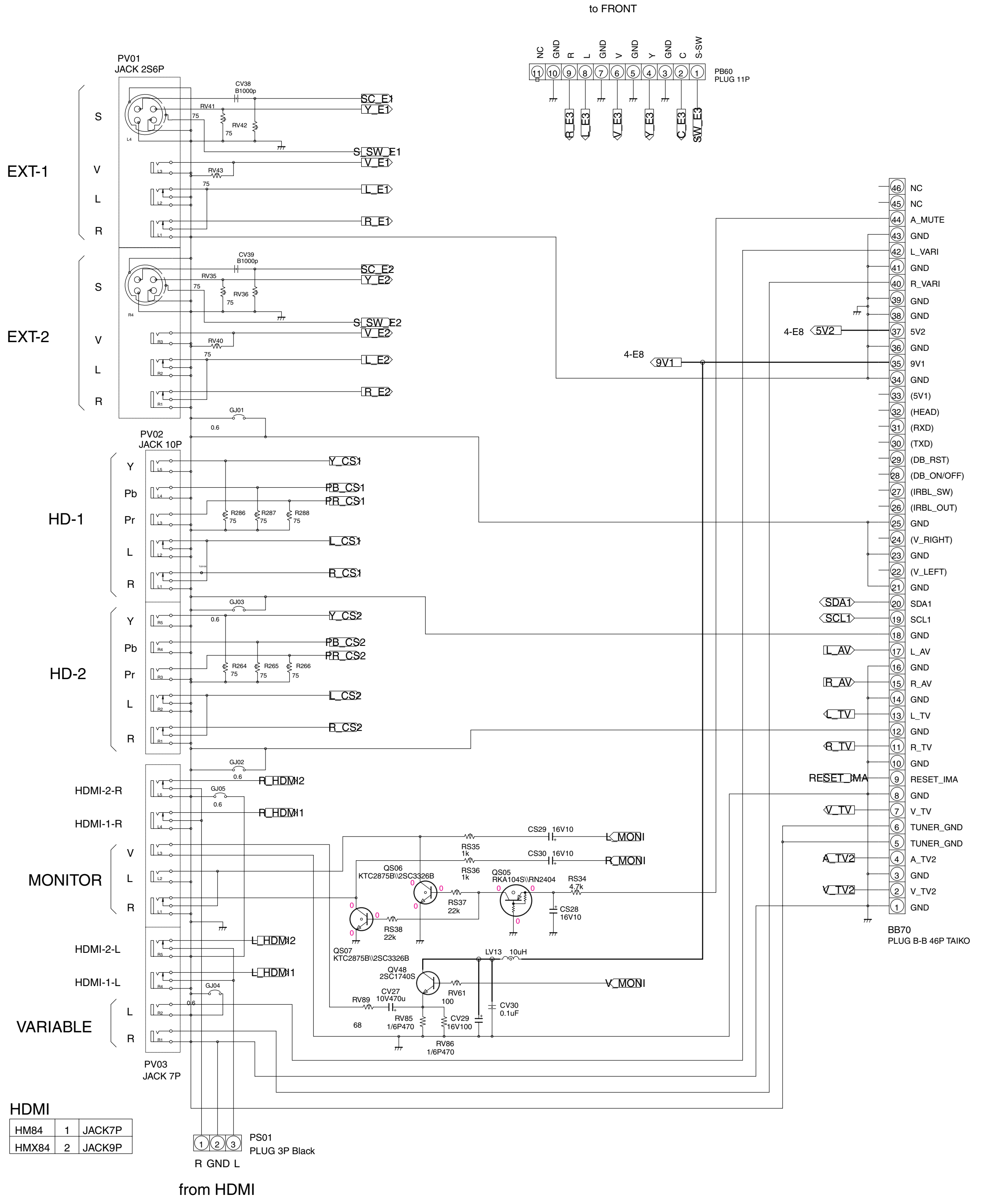
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt   10W = Cement of 10 watt
   K = ±10%   G = ±2%   F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacitor    Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

- BACK AV Circuit
  - (1/5) [SHEET - 1/5] 1/52
  - (2/5) [SHEET - 2/5] 2/52
  - (3/5) [SHEET - 3/5] 3/52
  - (4/5) [SHEET - 4/5] 4/52
  - (5/5) [SHEET - 5/5] 5/52
- IF AUDIO Circuit
  - (1/3) [SHEET - 1/3] 6/12
  - (2/3) [SHEET - 2/3] 7/52
  - (3/3) [SHEET - 3/3] 8/52
- F-AV Circuit 9/52
- AV_CONNECTOR Circuit 10/52
- AD_LPF Circuit 11/52
- DVCD2_LPF Circuit 12/52
- DVCD1_LPF Circuit 13/52
- 3chADC HD Circuit 14/52
- 3chADC MST9883 Circuit 15/52
- DVCD CSYNCIN Circuit 16/52
- DVCD TC90A92AFG Circuit 17/52
- DVCD POWER Circuit 18/52
- GENESIS Circuit
  - (1/2) [SHEET - 1/2] 19/52
  - (2/2) [SHEET - 2/2] 20/52
- SDRAM Circuit 21/52
- GENESIS_POWER Circuit 22/52
- GENESIS_IIC Circuit 23/52
- SCALER DIGITAL INPUT Circuit 24/52
- SCALER CAPTURE INPUT Circuit 25/52
- DDR SDRAM Circuit 26/52
- SCALER PLL Circuit 27/52
- OSD for North America Circuit 28/52
- IIC Circuit 29/52
- 94TB POWER Circuit 30/52
- LVDS OUT Circuit 31/52
- Power (3.3V_2 to 2.5V_DVCC) Circuit 32/52
- LVDS OUT CONNECTOR Circuit 33/52
- DC/DC CONVERTER Circuit 34/52
- SUB MICON Circuit
  - (1/3) [SHEET - 1/3] 35/52
  - (2/3) [SHEET - 2/3] 36/52
  - (3/3) [SHEET - 3/3] 37/52
- OSD MICON 4/4 Circuit 38/52
- MICON Circuit
  - (1/3) [SHEET - 1/3] 39/52
  - (2/3) [SHEET - 2/3] 40/52
  - (2/3) [SHEET - 3/3] 41/52
- TV MICON RESET IC & FLASH Circuit 42/52
- SYNC_DETECT Circuit 43/52
- PLD (US OSD SYNC Generator) Circuit 44/52
- POWER_CONNECTOR Circuit 45/52
- TV MICON CONNECTOR (1) Circuit 46/52
- CONNECTOR (TV MICON-POWER BOARD) Circuit 47/52
- CONNECTOR (DLF I/F) Circuit 48/52
- SERVICE CONNECTOR Circuit 49/52
- Front Key Circuit 50/52
- MAIN POWER Circuit 51/52
- AC IN Circuit 52/52

CIRCUIT BLOCK DIAGRAM

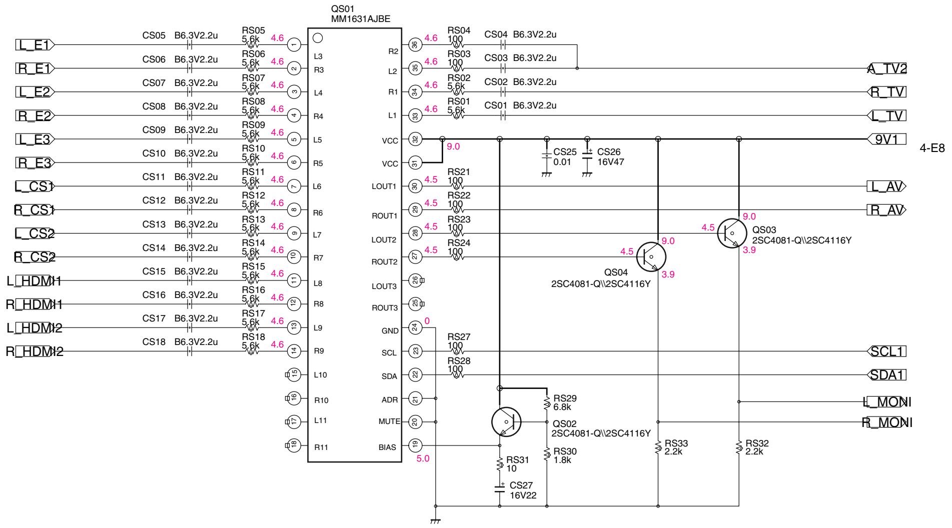

HY01
TV V
TV L/R
H003
H001
H002
TV V
TV L/R
L/R in
L/R out
Vari A
Q663
Vari-AMP
Q601
Audio Amp
QS01
Audio SW
L/R
L/R
VIDEO1
VIDEO2
VIDEO3
Color Stream HD1
Color Stream HD2
HDMI
A/V OUT
L/R
V
V
V,Y/C
Y/Pb/Pr
Y/Cb/Cr
QV01
Video SW
V(Y)/C/Cb/Cr
IC210
Color Dec. With 3DYCS
Y/C
V
QY100
YC Sep
Y/C
Y/C/Cb/Cr
QY501
Color Dec
Sync Det.
Y/Cb/Cr/HD/VD
IC208
AD
MST9883
HD/VD
Sync(Main)
Sync(Sub)
IC204
SDRAM
IC203
Genesis
IC302
SDRAM
IC301
D-BEP
TC90A94TB
IC311
LVDS TX
IC607
PLD
IC609
Flash ROM
IC601
TV Micro
IC603
EEPROM
IC501
BEP Micro
IC503
EEPROM
Thermo Breaker
Lamp Door Open Detect
FAN STOP DETECT
Thermo Senser
Reset ASIC
DDP1011
DMD
LVDS RX
RDRAM
Thermo Senser
Color Wheel
Motor Driver
Ballast Power
LAMP
Main Power
+13V(FAN)
+12V
+3.3V
+9V
+5V-2
+3.3V
+2.5V
+40V
+5V-1
]


to FRONT
NC
GND
R
L
GND
V
GND
Y
GND
C
S-SW
11
10
9
8
7
6
5
4
3
2
1
PB60
PLUG 11P
R_E3
L_E3
V_E3
Y_E3
C_E3
SW_E3
PV01
JACK 2S6P
EXT-1
S
V
L
R
CV38
B1000p
RV41
75
RV42
75
L4
SC_E1
Y_E1
S_SW_E1
V_E1
RV43
75
L3
L2
L1
L_E1
R_E1
EXT-2
S
V
L
R
CV39
B1000p
RV35
75
RV36
75
R4
R3
R2
R1
SC_E2
Y_E2
S_SW_E2
V_E2
RV40
75
L_E2
R_E2
GJ01
0.6
PV02
JACK 10P
HD-1
Y
Pb
Pr
L
R
L5
L4
L3
L2
L1
Y_CS1
PB_CS1
PR_CS1
R286
75
R287
75
R288
75
L_CS1
R_CS1
GJ03
0.6
HD-2
Y
Pb
Pr
L
R
R5
R4
R3
R2
R1
Y_CS2
PB_CS2
PR_CS2
R264
75
R265
75
R266
75
L_CS2
R_CS2
GJ02
0.6
R_HDMI2
GJ05
0.6
R_HDMI1
HDMI-2-R
HDMI-1-R
MONITOR
V
L
R
HDMI-2-L
HDMI-1-L
L_HDMI2
L_HDMI1
GJ04
0.6
VARIABLE
L
R
PV03
JACK 7P
PS01
PLUG 3P Black
1
2
3
R GND L
from HDMI
CS29 16V10
L_MONI
RS35
1k
CS30 16V10
R_MONI
RS36
1k
QS06
KTC2875B\\2SC3326B
QS05
RKA104S\\RN2404
RS34
4.7k
RS37
22k
CS28
16V10
RS38
22k
QS07
KTC2875B\\2SC3326B
0
LV13 10uH
QV48
2SC1740S
V_MONI
RV89
68
CV27
10V470u
RV61
100
RV85
1/6P470
CV29
16V100
CV30
0.1uF
RV86
1/6P470
4-E8
9V1
4-E8
5V2
46 NC
45 NC
44 A_MUTE
43 GND
42 L_VARI
41 GND
40 R_VARI
39 GND
38 GND
37 5V2
36 GND
35 9V1
34 GND
33 (5V1)
32 (HEAD)
31 (RXD)
30 (TXD)
29 (DB_RST)
28 (DB_ON/OFF)
27 (IRBL_SW)
26 (IRBL_OUT)
25 GND
24 (V_RIGHT)
23 GND
22 (V_LEFT)
21 GND
20 SDA1
19 SCL1
18 GND
17 L_AV
16 GND
15 R_AV
14 GND
13 L_TV
12 GND
11 R_TV
10 GND
9 RESET_IMA
8 GND
7 V_TV
6 TUNER_GND
5 TUNER_GND
4 A_TV2
3 GND
2 V_TV2
1 GND
SDA1
SCL1
L_AV
R_AV
L_TV
R_TV
RESET_IMA
V_TV
A_TV2
V_TV2
BB70
PLUG B-B 46P TAIKO

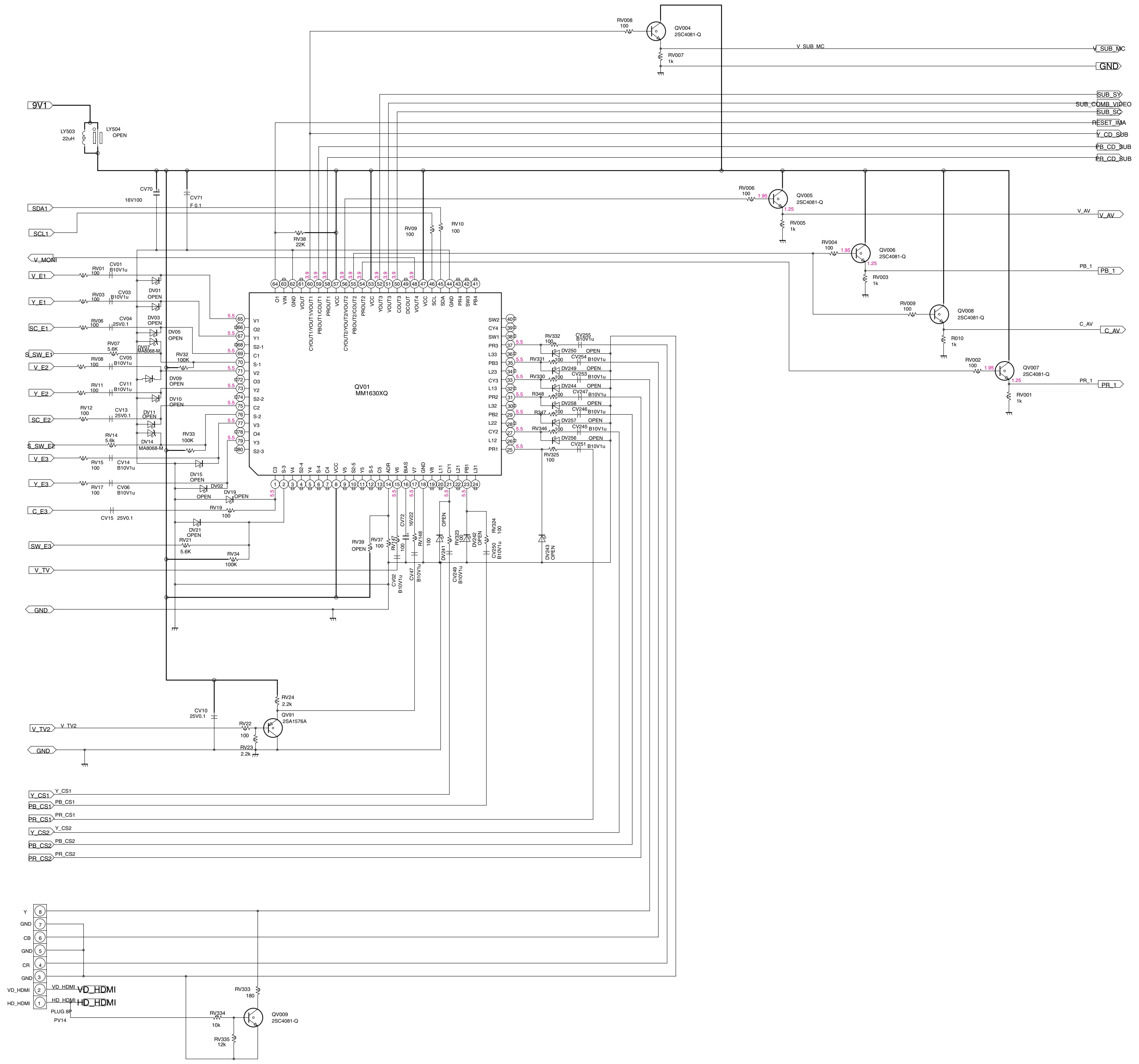
HDMI

HM84	1	JACK7P
HMX84	2	JACK9P

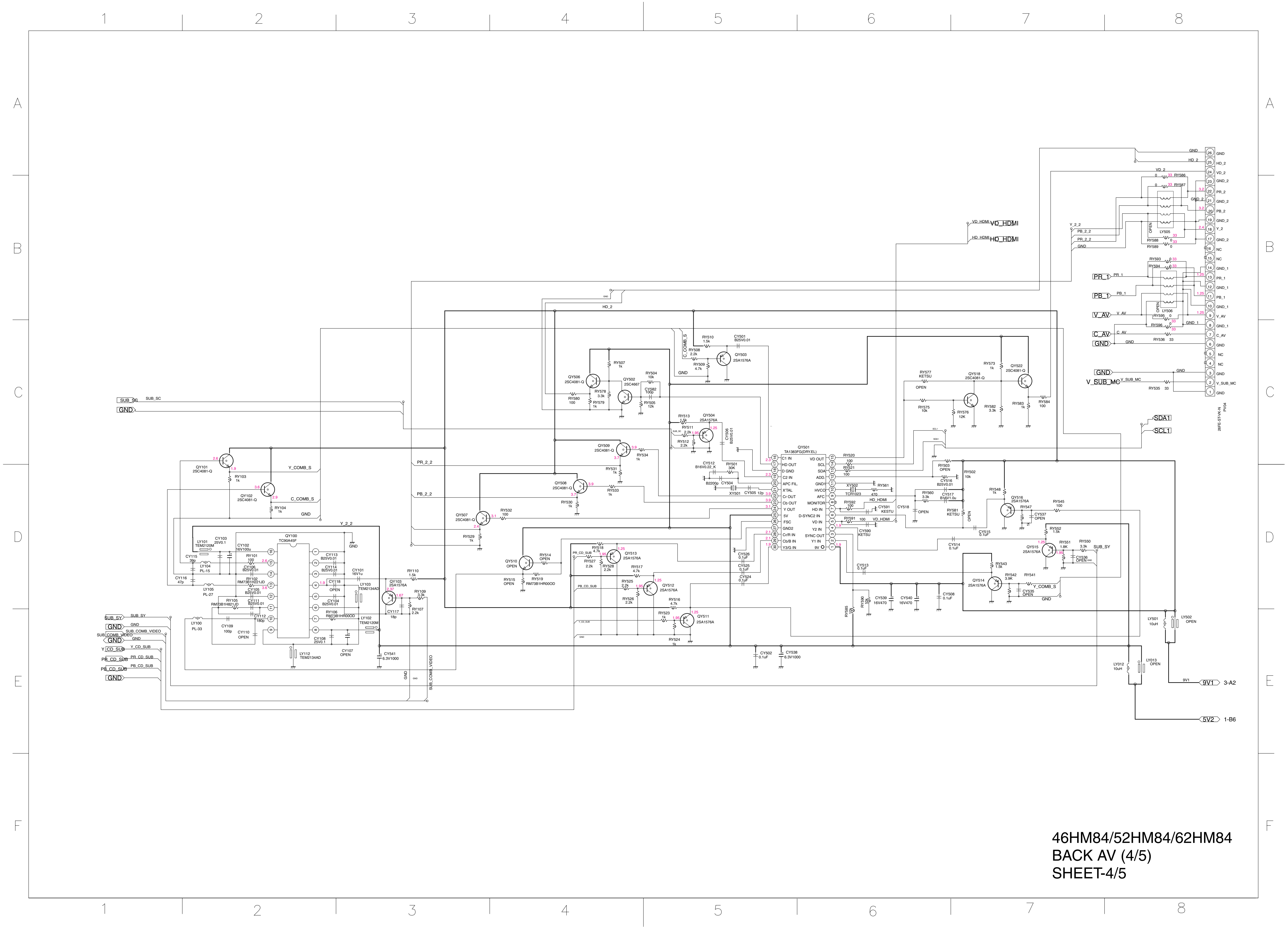
46HM84/52HM84/62HM84
BACK AV (1/5)
SHEET-1/5


QS01
MM1631AJBE
L_E1
R_E1
L_E2
R_E2
L_E3
R_E3
L_CS1
R_CS1
L_CS2
R_CS2
L_HDMI1
R_HDMI1
L_HDMI2
R_HDMI2
CS05 B6.3V2.2u
CS06 B6.3V2.2u
CS07 B6.3V2.2u
CS08 B6.3V2.2u
CS09 B6.3V2.2u
CS10 B6.3V2.2u
CS11 B6.3V2.2u
CS12 B6.3V2.2u
CS13 B6.3V2.2u
CS14 B6.3V2.2u
CS15 B6.3V2.2u
CS16 B6.3V2.2u
CS17 B6.3V2.2u
CS18 B6.3V2.2u
RS05 5.6k
RS06 5.6k
RS07 5.6k
RS08 5.6k
RS09 5.6k
RS10 5.6k
RS11 5.6k
RS12 5.6k
RS13 5.6k
RS14 5.6k
RS15 5.6k
RS16 5.6k
RS17 5.6k
RS18 5.6k
4.6
L3
R3
L4
R4
L5
R5
L6
R6
L7
R7
L8
R8
L9
R9
L10
R10
L11
R11
R2
L2
R1
L1
VCC
VCC
LOUT1
ROUT1
LOUT2
ROUT2
LOUT3
ROUT3
GND
SCL
SDA
ADR
MUTE
BIAS
RS04 100
RS03 100
RS02 5.6k
RS01 5.6k
CS04 B6.3V2.2u
CS03 B6.3V2.2u
CS02 B6.3V2.2u
CS01 B6.3V2.2u
A_TV2
R_TV
L_TV
9V1
4-E8
9.0
CS25 0.01
CS26 16V47
RS21 100
RS22 100
RS23 100
RS24 100
4.5
L_AV
R_AV
QS03
2SC4081-Q\\2SC4116Y
QS04
2SC4081-Q\\2SC4116Y
3.9
0
RS27 100
RS28 100
SCL1
SDA1
RS29 6.8k
QS02
2SC4081-Q\\2SC4116Y
RS30 1.8k
RS31 10
CS27 16V22
RS33 2.2k
RS32 2.2k
L_MONI
R_MONI
5.0

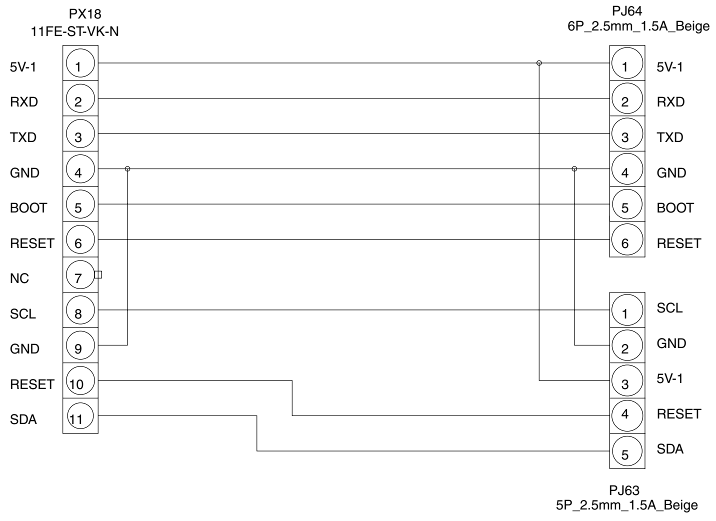
46HM84/52HM84/62HM84
BACK AV (2/5)
SHEET-2/5

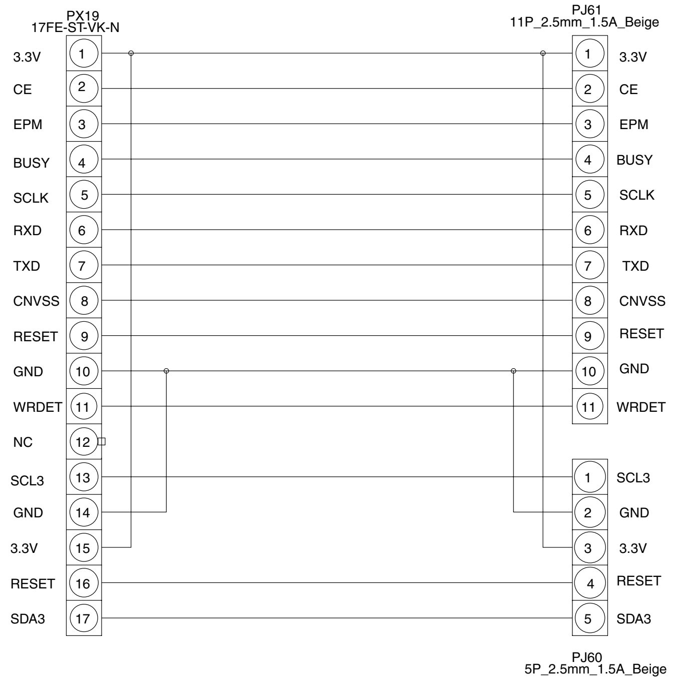

9V1
LY503 22uH
LY504 OPEN
CV70 16V100
CV71 F 0.1
SDA1
SCL1
V_MONI
V_E1
Y_E1
SC_E1
S_SW_E1
V_E2
Y_E2
SC_E2
S_SW_E2
V_E3
Y_E3
C_E3
SW_E3
V_TV
GND
V_TV2
Y_CS1
PB_CS1
PR_CS1
Y_CS2
PB_CS2
PR_CS2
QV01 MM1630XQ
RV38 22K
RV09 100
RV10 100
RV008 100
QV004 2SC4081-Q
RV007 1k
V_SUB_MC
GND
SUB_SY
SUB_COMB_VIDEO
SUB_SC
RESET_IMA
V_CD_SUB
PB_CD_SUB
PR_CD_SUB
RV006 100
QV005 2SC4081-Q
RV005 1k
V_AV
RV004 100
QV006 2SC4081-Q
RV003 1k
PB_1
RV009 100
QV008 2SC4081-Q
R010 1k
C_AV
RV002 100
QV007 2SC4081-Q
RV001 1k
PR_1
RV24 2.2k
QV91 2SA1576A
CV10 25V0.1
RV22 100
RV23 2.2k
Y
GND
CB
GND
CR
GND
VD_HDMI
HD_HDMI
PLUG 8P
PV14
RV333 180
RV334 10k
RV335 12k
QV009 2SC4081-Q

46HM84/52HM84/62HM84
BACK AV (3/5)
SHEET-3/5

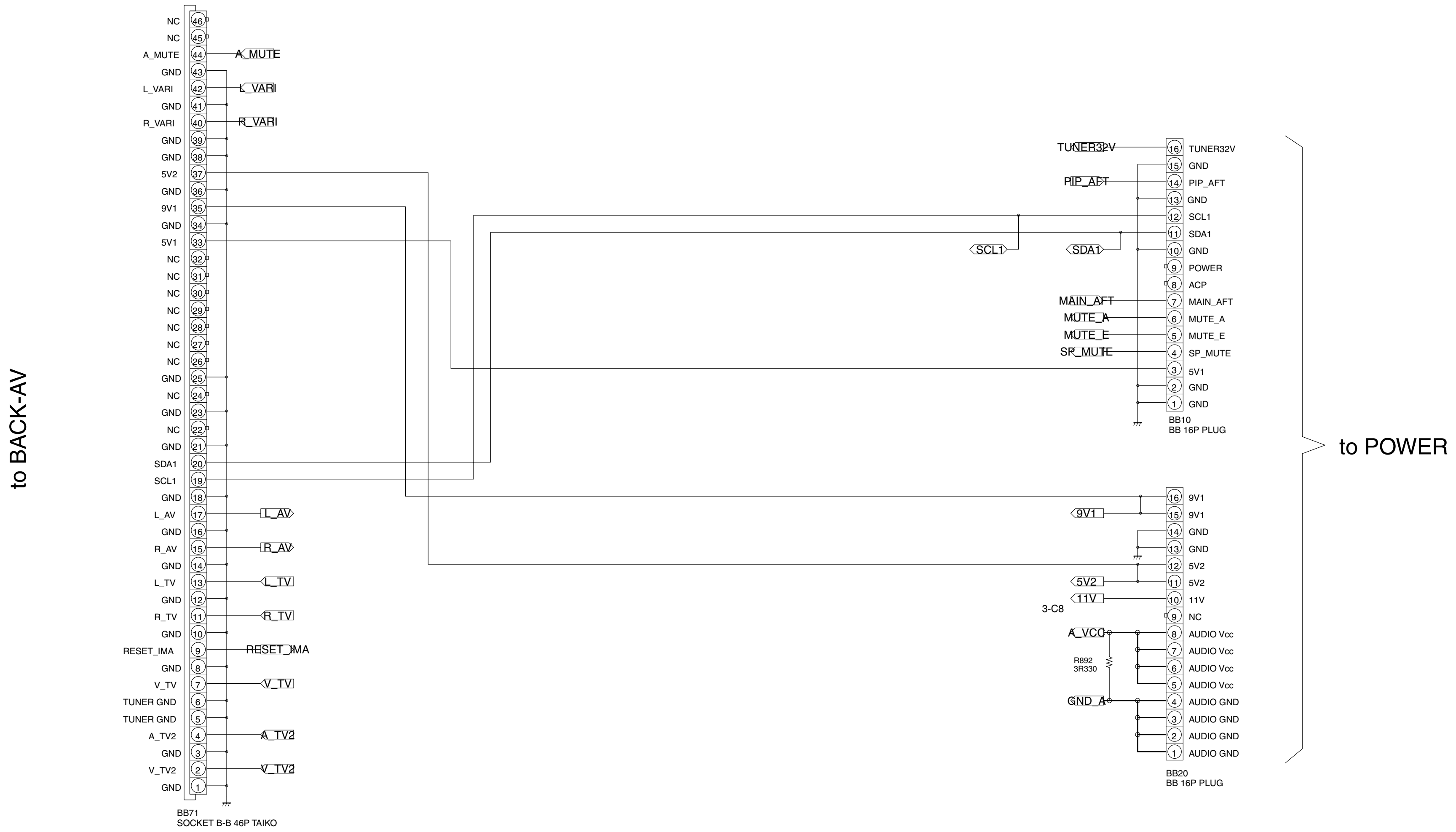

QY501
TA1383FG(DRY,EL)
QY100
TC90A45F
VD_HDMI
HD_HDMI
SUB_SC
GND
SUB_SY
SUB_COMB_VIDEO
Y_CD_SUB
PB_CD_SUB
PR_CD_SUB
PR_1
PB_1
V_AV
C_AV
V_SUB_MC
SDA1
SCL1
9V1
3-A2
5V2
1-B6
Y_COMB_S
C_COMB_S
PR_2_2
PB_2_2
Y_2_2
HD_2
VD_2
LY505
LY506
LY501
LY502
LY012
LY013
XY501
XY502

46HM84/52HM84/62HM84
BACK AV (4/5)
SHEET-4/5

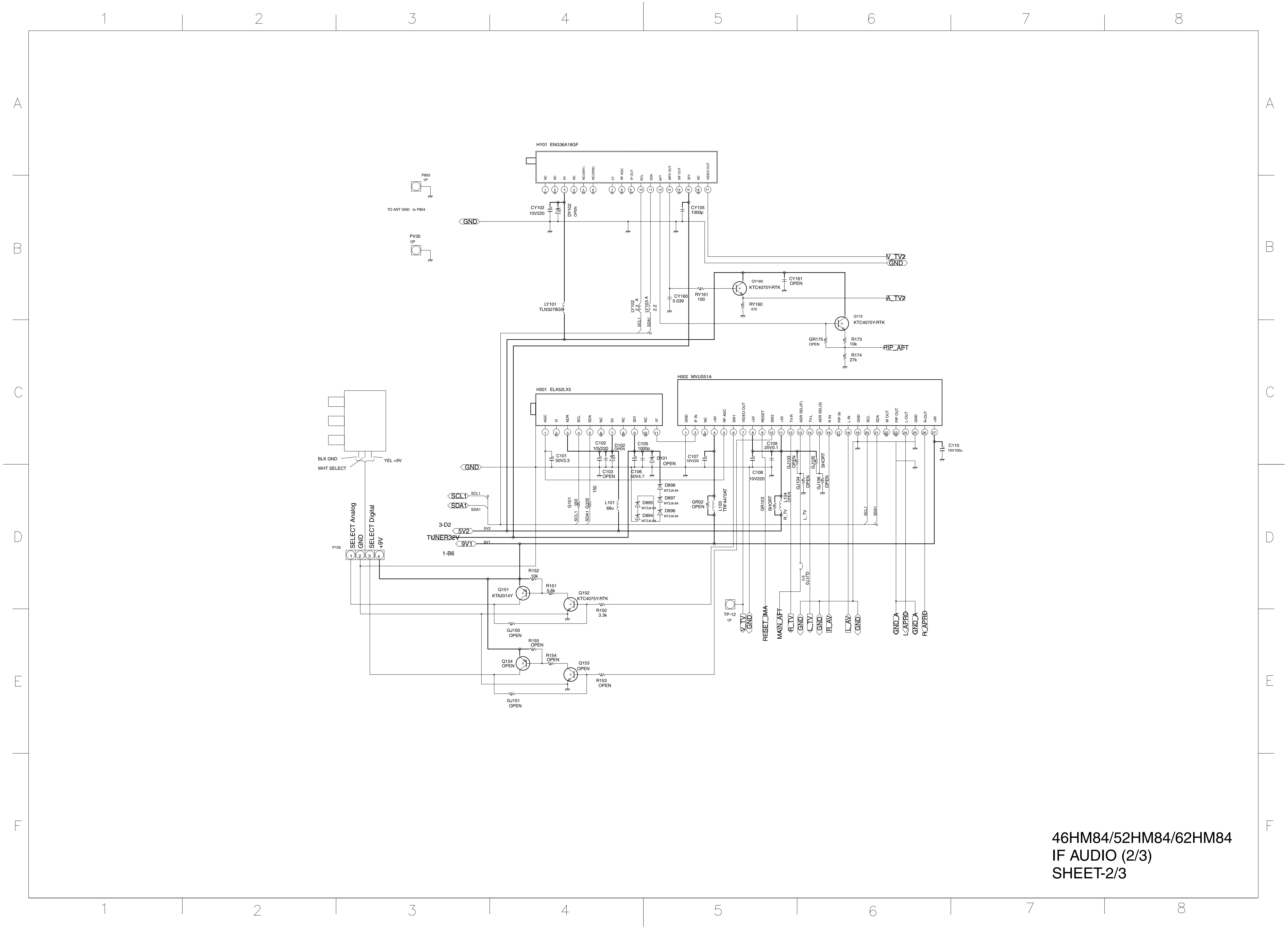

PX18
11FE-ST-VK-N
5V-1
RXD
TXD
GND
BOOT
RESET
NC
SCL
GND
RESET
SDA
1
2
3
4
5
6
7
8
9
10
11
PJ64
6P_2.5mm_1.5A_Beige
1 5V-1
2 RXD
3 TXD
4 GND
5 BOOT
6 RESET
1 SCL
2 GND
3 5V-1
4 RESET
5 SDA
PJ63
5P_2.5mm_1.5A_Beige


PX19
17FE-ST-VK-N
3.3V
CE
EPM
BUSY
SCLK
RXD
TXD
CNVSS
RESET
GND
WRDET
NC
SCL3
GND
3.3V
RESET
SDA3
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
PJ61
11P_2.5mm_1.5A_Beige
1 3.3V
2 CE
3 EPM
4 BUSY
5 SCLK
6 RXD
7 TXD
8 CNVSS
9 RESET
10 GND
11 WRDET
1 SCL3
2 GND
3 3.3V
4 RESET
5 SDA3
PJ60
5P_2.5mm_1.5A_Beige

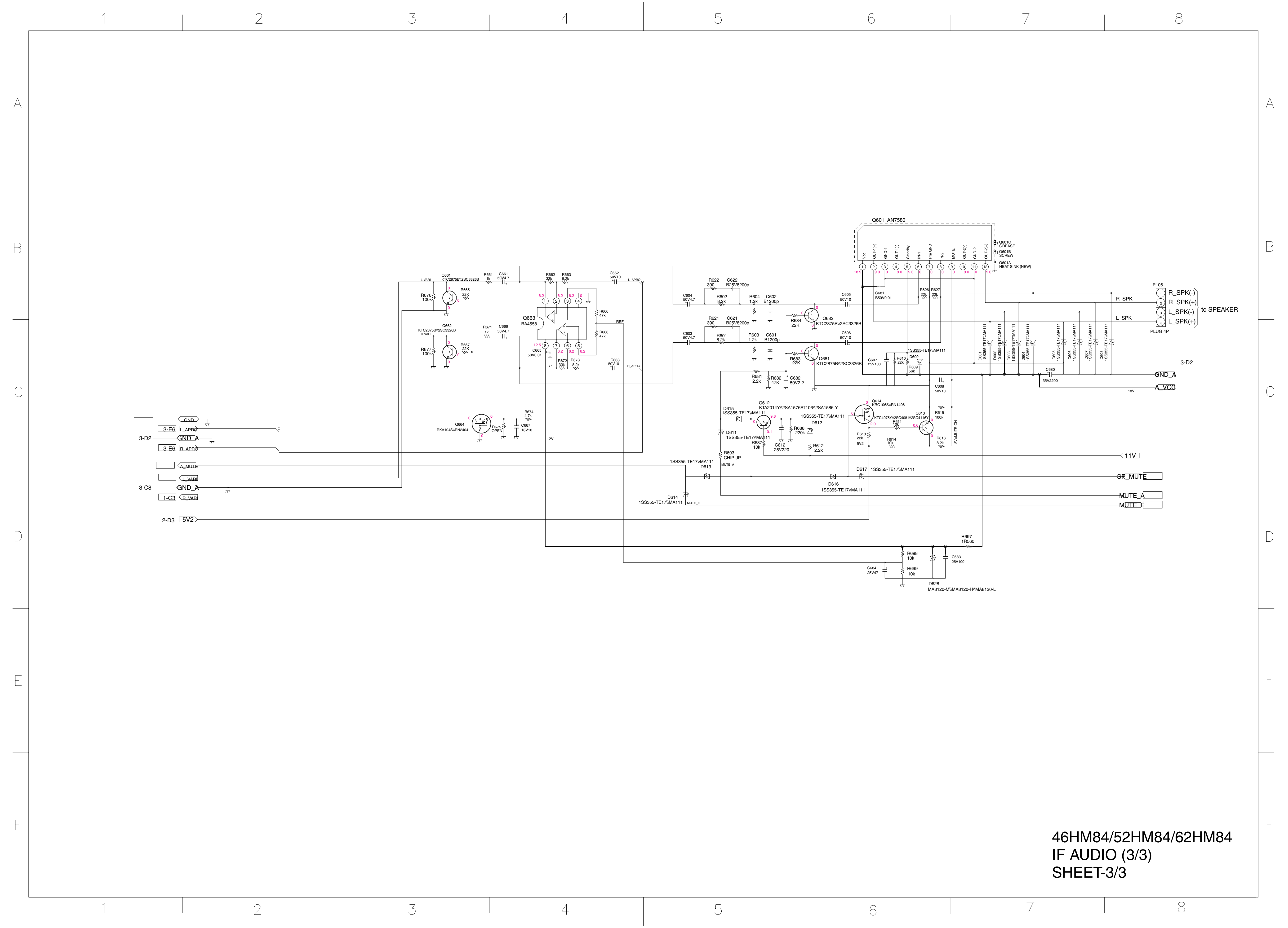
46HM84/52HM84/62HM84
BACK AV (5/5)
SHEET-5/5


to BACK-AV
NC 46
NC 45
A_MUTE 44 A_MUTE
GND 43
L_VARI 42 L_VARI
GND 41
R_VARI 40 R_VARI
GND 39
GND 38
5V2 37
GND 36
9V1 35
GND 34
5V1 33
NC 32
NC 31
NC 30
NC 29
NC 28
NC 27
NC 26
GND 25
NC 24
GND 23
NC 22
GND 21
SDA1 20
SCL1 19
GND 18
L_AV 17 L_AV
GND 16
R_AV 15 R_AV
GND 14
L_TV 13 L_TV
GND 12
R_TV 11 R_TV
GND 10
RESET_IMA 9 RESET_IMA
GND 8
V_TV 7 V_TV
TUNER GND 6
TUNER GND 5
A_TV2 4 A_TV2
GND 3
V_TV2 2 V_TV2
GND 1
BB71
SOCKET B-B 46P TAIKO
TUNER32V 16 TUNER32V
15 GND
PIP_AFT 14 PIP_AFT
13 GND
12 SCL1
11 SDA1
SCL1
SDA1
10 GND
9 POWER
8 ACP
MAIN_AFT 7 MAIN_AFT
MUTE_A 6 MUTE_A
MUTE_E 5 MUTE_E
SP_MUTE 4 SP_MUTE
3 5V1
2 GND
1 GND
BB10
BB 16P PLUG
to POWER
16 9V1
9V1 15 9V1
14 GND
13 GND
12 5V2
5V2 11 5V2
11V 10 11V
3-C8
9 NC
A_VCC 8 AUDIO Vcc
7 AUDIO Vcc
R892
3R330
6 AUDIO Vcc
5 AUDIO Vcc
GND_A 4 AUDIO GND
3 AUDIO GND
2 AUDIO GND
1 AUDIO GND
BB20
BB 16P PLUG

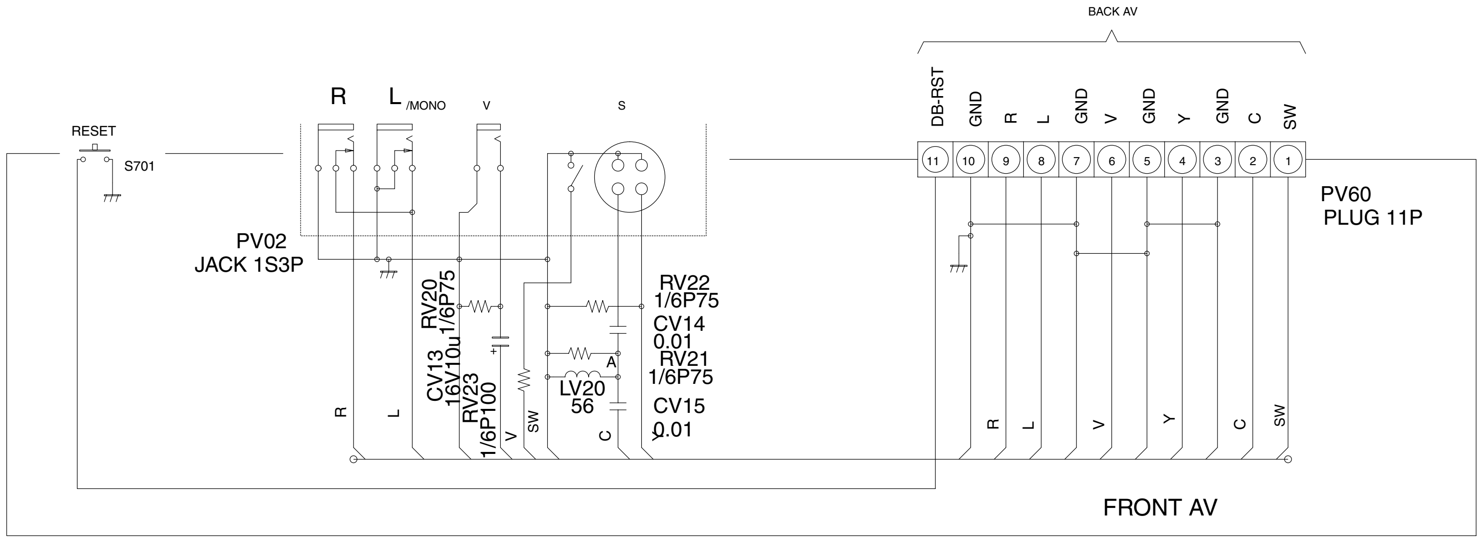
46HM84/52HM84/62HM84
IF AUDIO (1/3)
SHEET-1/3

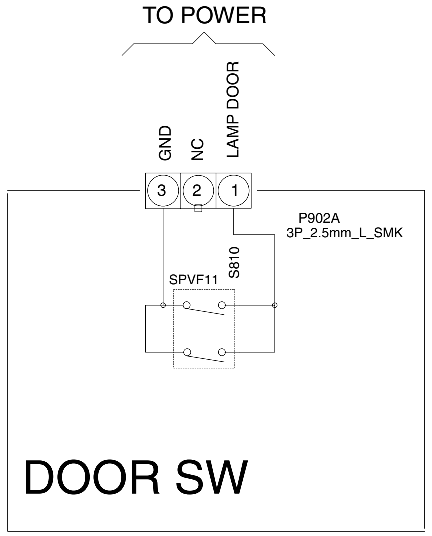

HY01 ENG36A18GF
NC
NC
5V
NC
NC(SW1)
NC(SW2)
VT
RF AGC
IF OUT
SCL
SDA
AFT
MPX OUT
SIF OUT
32V
NC
VIDEO OUT
CY102
10V220
DY102
OPEN
CY105
1000p
P803
1P
TO ANT GND to P804
PV35
1P
GND
V_TV2
GND
CY161
OPEN
QY160
KTC4075Y-RTK
CY160
0.039
RY161
100
RY160
470
A_TV2
LY101
TLN3278GH
LY102
2.2
LY103
2.2
SCL1
SDA1
Q172
KTC4075Y-RTK
GR175
OPEN
R173
10k
PIP_AFT
R174
27k
H001 ELA52LX5
AGC
VI
ADR
SCL
SDA
NC
5V
NC
32V
NC
IF
H002 MVUS51A
GND
IF IN
NC
+9V
RF AGC
SW1
VIDEO OUT
+5V
RESET
SW2
+5V
TV-R
ADR SEL(IF)
TV-L
ADR SEL(S)
R IN
PIP IN
L IN
GND
SCL
SDA
W OUT
PIP OUT
L-OUT
GND
R-OUT
+9V
C101
50V3.3
C102
10V220
D102
OPEN
C105
1000p
C103
OPEN
C106
50V4.7
D101
OPEN
C107
16V220
C109
25V0.1
C108
10V220
C110
16V100u
GJ103
OPEN
GJ105
SHORT
GJ104
OPEN
GJ106
OPEN
D898
D897
D896
D895
D894
MTZJ6.8A
G101
150
G102
150
L101
68u
GR02
OPEN
L103
TRF4470AT
GR103
SHORT
L104
OPEN
R_TV
L_TV
BLK GND
WHT SELECT
YEL +9V
SCL1
SDA1
3-D2
5V2
TUNER32V
9V1
1-B6
P105
SELECT Analog
GND
SELECT Digital
+9V
R152
10k
Q151
KTA2014Y
R151
5.6k
Q152
KTC4075Y-RTK
R150
3.3k
GJ150
OPEN
R155
OPEN
R154
OPEN
Q154
OPEN
Q153
OPEN
R153
OPEN
GJ151
OPEN
0.6
0J170
TP-12
1P
V_TV
GND
RESET_MA
MAIN_AFT
R_TV
GND
L_TV
GND
R_AV
L_AV
GND
GND_A
L_APRO
GND_A
R_APRO
1
2
3
4
5
6
7
8
A
B
C
D
E
F

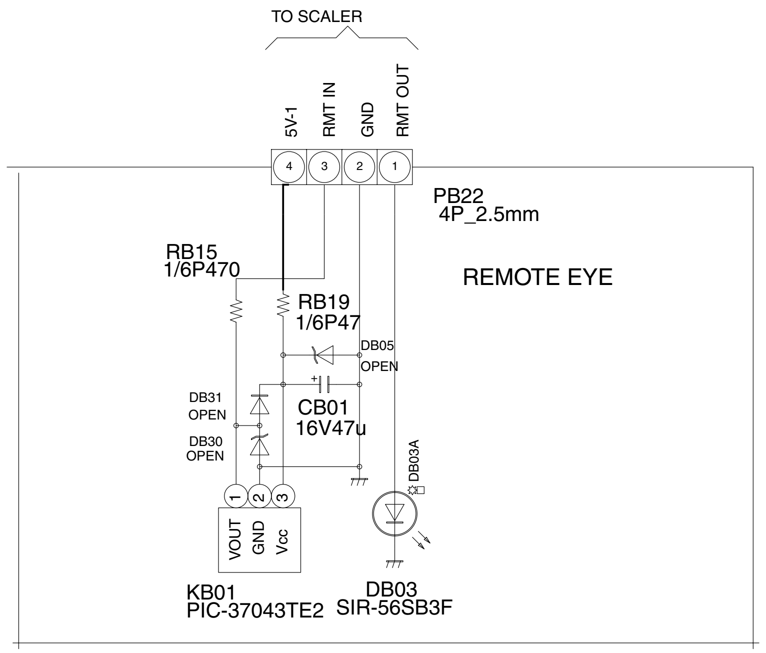
46HM84/52HM84/62HM84
IF AUDIO (2/3)
SHEET-2/3


1
2
3
4
5
6
7
8
A
B
C
D
E
F
Q601 AN7580
Vcc
OUT-1(+)
GND-1
OUT-1(-)
Standby
IN-1
Pre GND
IN-2
MUTE
OUT-2(-)
GND-2
OUT-2(+)
Q601C GREASE
Q601B SCREW
Q601A HEAT SINK (NEW)
18.9
9.0
9.0
5.3
9.0
9.0
Q661 KTC2875B\\2SC3326B
L-VARI
R676 100k
R665 22K
R661 1k
C661 50V4.7
R662 33k
R663 8.2k
C662 50V10
L_APRO
Q663 BA4558
R666 47k
R668 47k
REF
12.5
C665 50V0.01
R672 33k
R673 8.2k
C663 50V10
R_APRO
Q662 KTC2875B\\2SC3326B
R-VARI
R677 100k
R667 22K
R671 1k
C666 50V4.7
Q664 RKA104S\\RN2404
R675 OPEN
R674 4.7k
C667 16V10
12V
C604 50V4.7
R622 390
C622 B25V8200p
R602 8.2k
R604 1.2k
C602 B1200p
C603 50V4.7
R621 390
C621 B25V8200p
R601 8.2k
R603 1.2k
C601 B1200p
R684 22K
Q682 KTC2875B\\2SC3326B
R683 22K
Q681 KTC2875B\\2SC3326B
C605 50V10
C606 50V10
C681 B50V0.01
R626 22k
R627 22k
C607 25V100
R610 22k
D609
1SS355-TE17\\MA111
R609 56k
R681 2.2k
R682 47K
C682 50V2.2
C608 50V10
D601 1SS355-TE17\\MA111
D602 1SS355-TE17\\MA111
D603 1SS355-TE17\\MA111
D604 1SS355-TE17\\MA111
D605 1SS355-TE17\\MA111
D606 1SS355-TE17\\MA111
D607 1SS355-TE17\\MA111
D608 1SS355-TE17\\MA111
P106
R_SPK(-)
R_SPK(+)
L_SPK(-)
L_SPK(+)
to SPEAKER
PLUG 4P
R_SPK
L_SPK
3-D2
C680 35V2200
GND_A
A_VCC
18V
Q612 KTA2014Y\\2SA1576AT106\\2SA1586-Y
D615 1SS355-TE17\\MA111
D611 1SS355-TE17\\MA111
9.6
10.1
C612 25V220
R688 220k
D612 1SS355-TE17\\MA111
R612 2.2k
R687 10k
R693 CHIP-JP
MUTE_A
Q614 KRC106S\\RN1406
Q613 KTC4075Y\\2SC4081\\2SC4116Y
R611 10k
R613 22k
5V2
R614 10k
R615 100k
R616 8.2k
5V=MUTE-ON
2.0
0.6
11V
D613 1SS355-TE17\\MA111
D616 1SS355-TE17\\MA111
D617 1SS355-TE17\\MA111
SP_MUTE
D614 1SS355-TE17\\MA111
MUTE_E
MUTE_A
MUTE_E
R697 1R560
R698 10k
R699 10k
C684 25V47
C683 25V100
D628 MA8120-M\\MA8120-H\\MA8120-L
3-D2
GND
3-E6
L_APRO
GND_A
3-E6
R_APRO
A_MUTE
L_VARI
3-C8
GND_A
1-C3
R_VARI
2-D3
5V2

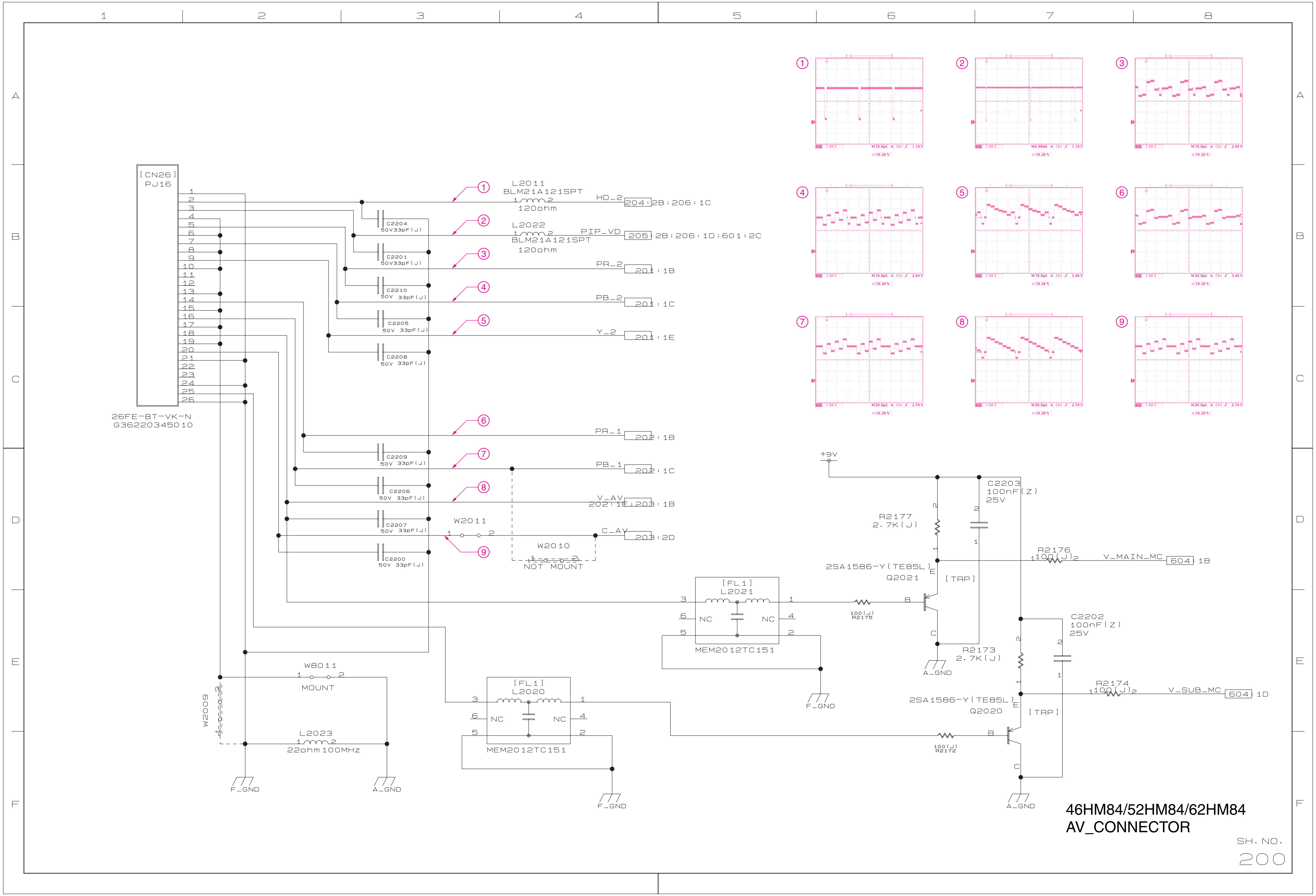
46HM84/52HM84/62HM84
IF AUDIO (3/3)
SHEET-3/3


BACK AV
RESET
S701
R
L /MONO
V
S
PV02
JACK 1S3P
RV20 1/6P75
CV13 16V10u
RV23 1/6P100
RV22 1/6P75
CV14 0.01
RV21 1/6P75
LV20 56
CV15 0.01
A
R L V SW C
DB-RST GND R L GND V GND Y GND C SW
11 10 9 8 7 6 5 4 3 2 1
PV60
PLUG 11P
R L V Y C SW
FRONT AV


TO POWER
GND
NC
LAMP DOOR
3 2 1
P902A
3P_2.5mm_L_SMK
SPVF11
S810
DOOR SW

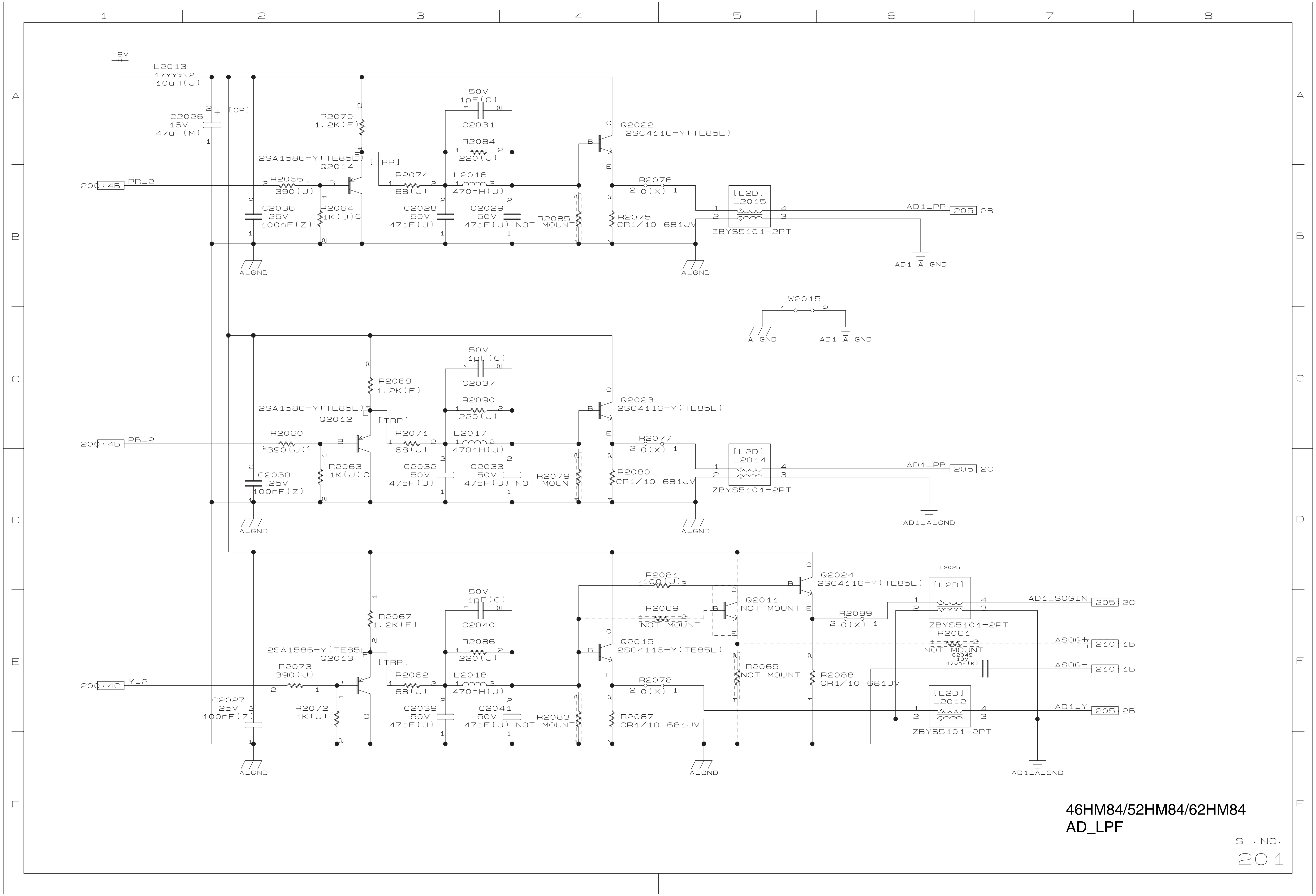

TO SCALER
5V-1
RMT IN
GND
RMT OUT
4 3 2 1
PB22
4P_2.5mm
REMOTE EYE
RB15
1/6P470
RB19
1/6P47
DB05
OPEN
DB31
OPEN
CB01
16V47u
DB30
OPEN
DB03A
1 2 3
VOUT
GND
Vcc
KB01
PIC-37043TE2
DB03
SIR-56SB3F

46HM84/52HM84/62HM84
F-AV


1
2
3
4
5
6
7
8
A
B
C
D
E
F
①
②
③
④
⑤
⑥
⑦
⑧
⑨
[CN26]
PJ16
26FE-BT-VK-N
G36220345010
L2011
BLM21A121SPT
120ohm
HD_2
204:2B:206:1C
L2022
BLM21A121SPT
120ohm
PIP_VD
205:2B:206:1D:601:2C
PR_2
201:1B
PB_2
201:1C
Y_2
201:1E
PR_1
202:1B
PB_1
202:1C
V_AV
202:1E:203:1B
C_AV
203:2D
C2204 50V33pF(J)
C2201 50V33pF(J)
C2210 50V 33pF(J)
C2205 50V 33pF(J)
C2208 50V 33pF(J)
C2209 50V 33pF(J)
C2206 50V 33pF(J)
C2207 50V 33pF(J)
C2200 50V 33pF(J)
W2011
W2010
NOT MOUNT
W8011
MOUNT
W2009
L2023
22ohm 100MHz
F_GND
A_GND
[FL1]
L2020
MEM2012TC151
[FL1]
L2021
MEM2012TC151
NC
+9V
C2203 100nF(Z) 25V
R2177 2.7K(J)
R2176 100(J)
V_MAIN_MC
604:1B
2SA1586-Y(TE85L)
Q2021
[TRP]
100(J) R2175
R2173 2.7K(J)
C2202 100nF(Z) 25V
R2174 100(J)
V_SUB_MC
604:1D
2SA1586-Y(TE85L)
Q2020
100(J) R2172
B
C
E

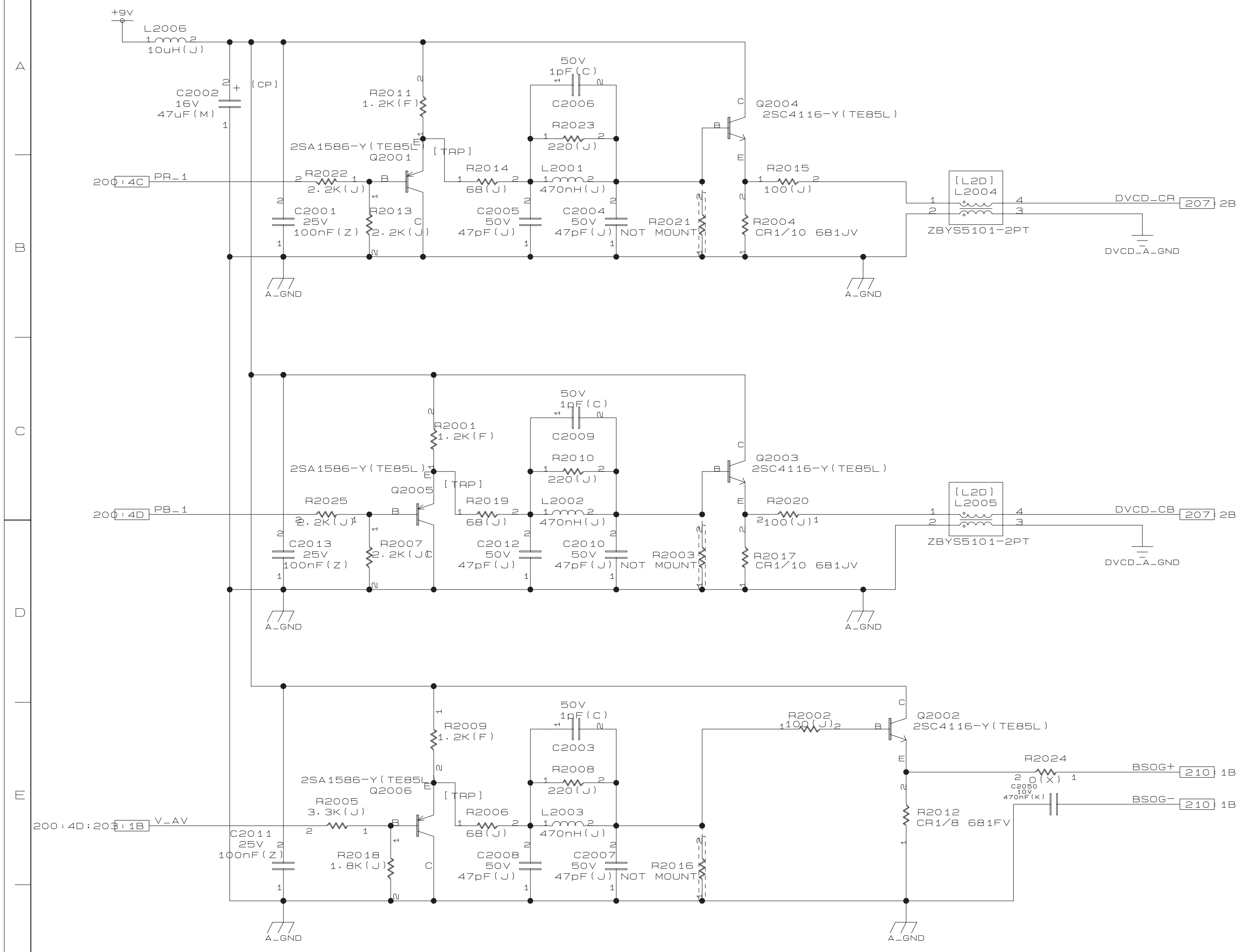
46HM84/52HM84/62HM84
AV_CONNECTOR

SH. NO.
200


+9V
L2013
10uH(J)
C2026
16V
47uF(M)
[CP]
R2070
1.2K(F)
2SA1586-Y(TE85L)
Q2014
[TRP]
R2066
390(J)
200 4B
PR_2
C2036
25V
100nF(Z)
R2064
1K(J)C
R2074
68(J)
50V
1pF(C)
C2031
R2084
220(J)
L2016
470nH(J)
C2028
50V
47pF(J)
C2029
50V
47pF(J)
NOT MOUNT
R2085
Q2022
2SC4116-Y(TE85L)
R2076
0(X)
R2075
CR1/10 681JV
[L2D]
L2015
ZBYS5101-2PT
AD1_PR
205 2B
AD1_A_GND
A_GND
W2015
R2068
1.2K(F)
2SA1586-Y(TE85L)
Q2012
[TRP]
R2060
390(J)
200 4B
PB_2
C2030
25V
100nF(Z)
R2063
1K(J)C
R2071
68(J)
C2037
R2090
220(J)
L2017
470nH(J)
C2032
50V
47pF(J)
C2033
50V
47pF(J)
NOT MOUNT
R2079
Q2023
2SC4116-Y(TE85L)
R2077
0(X)
R2080
CR1/10 681JV
[L2D]
L2014
ZBYS5101-2PT
AD1_PB
205 2C
R2067
1.2K(F)
2SA1586-Y(TE85L)
Q2013
[TRP]
R2073
390(J)
200 4C
Y_2
C2027
25V
100nF(Z)
R2072
1K(J)
R2062
68(J)
C2040
R2086
220(J)
L2018
470nH(J)
C2039
50V
47pF(J)
C2041
50V
47pF(J)
NOT MOUNT
R2083
R2081
100(J)
R2069
NOT MOUNT
Q2011
NOT MOUNT
Q2015
2SC4116-Y(TE85L)
Q2024
2SC4116-Y(TE85L)
R2078
0(X)
R2087
CR1/10 681JV
R2065
NOT MOUNT
R2088
CR1/10 681JV
R2089
0(X)
L2025
[L2D]
ZBYS5101-2PT
AD1_SOGIN
205 2C
R2061
NOT MOUNT
C2049
10V
470nF(K)
ASOG+
210 1B
ASOG-
210 1B
[L2D]
L2012
ZBYS5101-2PT
AD1_Y
205 2B

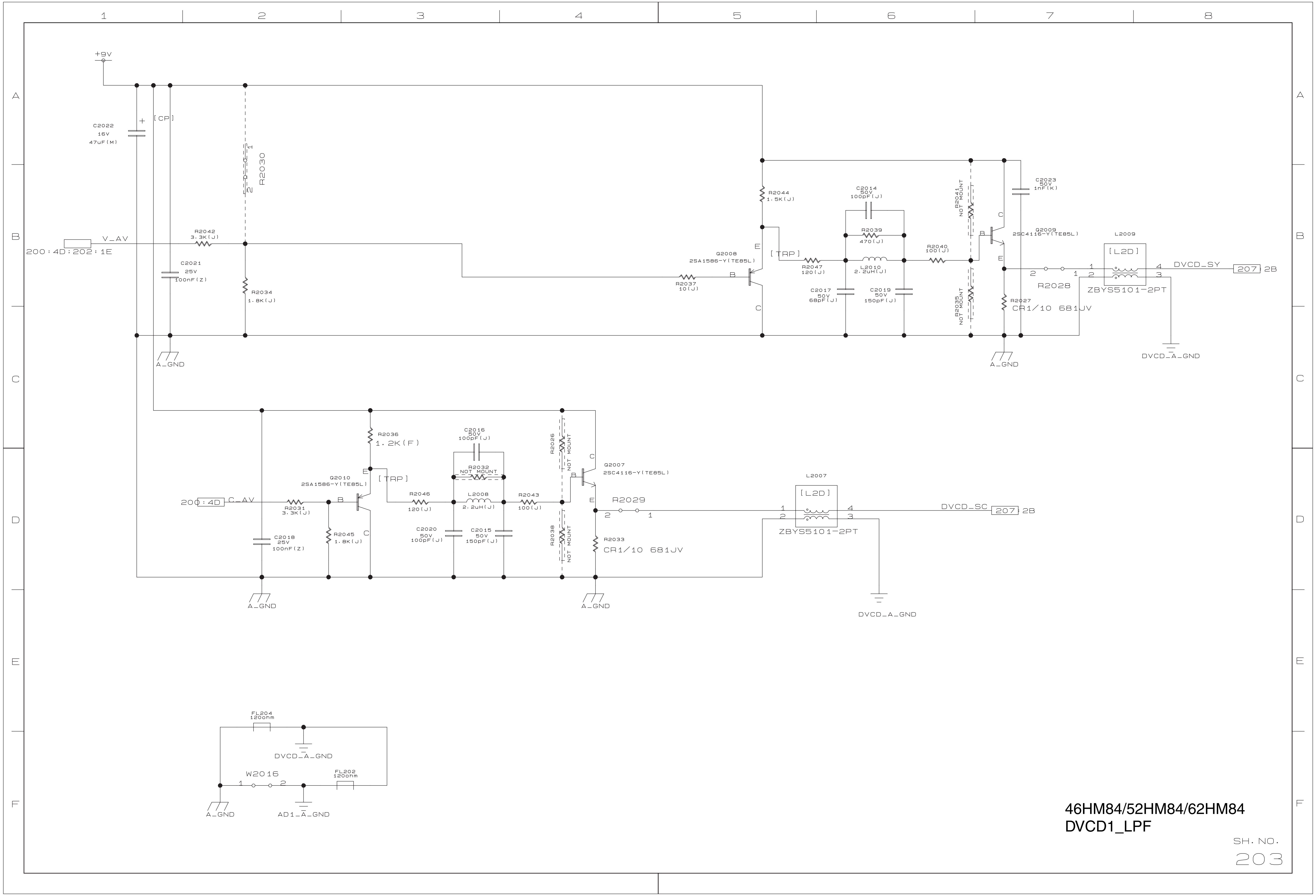
46HM84/52HM84/62HM84
AD_LPF

SH. NO.
201


+9V
L2006
10uH(J)
C2002
16V
47uF(M)
[CP]
R2011
1.2K(F)
2SA1586-Y(TE85L)
Q2001
[TRP]
50V
1pF(C)
C2006
R2023
220(J)
Q2004
2SC4116-Y(TE85L)
200:4C
PR_1
R2022
2.2K(J)
R2014
68(J)
L2001
470nH(J)
R2015
100(J)
[L2D]
L2004
DVCD_CR
207:2B
C2001
25V
100nF(Z)
R2013
2.2K(J)
C2005
50V
47pF(J)
C2004
50V
47pF(J)
R2021
NOT MOUNT
R2004
CR1/10 681JV
ZBYS5101-2PT
DVCD_A_GND
A_GND
R2001
1.2K(F)
50V
1pF(C)
C2009
R2010
220(J)
Q2003
2SC4116-Y(TE85L)
2SA1586-Y(TE85L)
[TRP]
Q2005
R2025
2.2K(J)
R2019
68(J)
L2002
470nH(J)
R2020
100(J)
[L2D]
L2005
DVCD_CB
207:2B
200:4D
PB_1
C2013
25V
100nF(Z)
R2007
2.2K(J)
C2012
50V
47pF(J)
C2010
50V
47pF(J)
R2003
NOT MOUNT
R2017
CR1/10 681JV
ZBYS5101-2PT
DVCD_A_GND
A_GND
R2009
1.2K(F)
50V
1pF(C)
C2003
R2008
220(J)
R2002
100(J)
Q2002
2SC4116-Y(TE85L)
2SA1586-Y(TE85L)
Q2006
[TRP]
R2005
3.3K(J)
R2006
68(J)
L2003
470nH(J)
R2024
0(X)
BSOG+
210:1B
C2050
10V
470nF(K)
BSOG-
210:1B
200:4D:203:1B
V_AV
C2011
25V
100nF(Z)
R2018
1.8K(J)
C2008
50V
47pF(J)
C2007
50V
47pF(J)
R2016
NOT MOUNT
R2012
CR1/8 681FV
A_GND

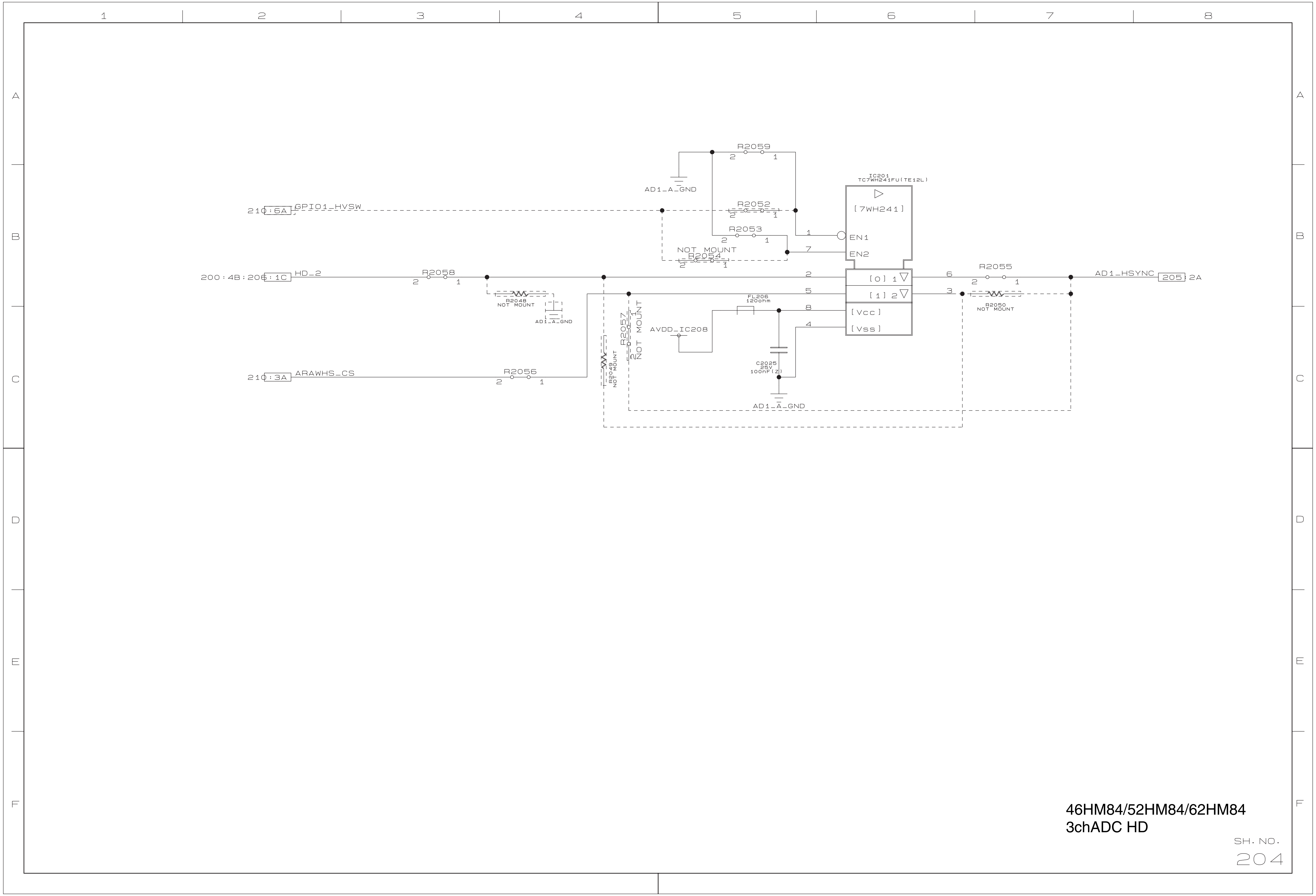
46HM84/52HM84/62HM84
DVCD2_LPF

SH. NO.
202


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+9V
C2022
16V
47uF(M)
+
[CP]
R2030
1
2
V_AV
200:4D;202:1E
R2042
3.3K(J)
C2021
25V
100nF(Z)
R2034
1.8K(J)
A_GND
R2044
1.5K(J)
Q2008
2SA1586-Y(TE85L)
E
B
C
[TRP]
R2037
10(J)
R2047
120(J)
C2014
50V
100pF(J)
R2039
470(J)
L2010
2.2uH(J)
C2017
50V
68pF(J)
C2019
50V
150pF(J)
R2040
100(J)
R2041
NOT MOUNT
R2035
NOT MOUNT
Q2009
2SC4116-Y(TE85L)
C2023
50V
1nF(K)
R2027
CR1/10 681JV
R2028
L2009
[L2D]
ZBYS5101-2PT
DVCD_SY
207:2B
DVCD_A_GND
R2036
1.2K(F)
Q2010
2SA1586-Y(TE85L)
200:4D
C_AV
R2031
3.3K(J)
R2045
1.8K(J)
C2018
25V
100nF(Z)
R2046
120(J)
C2016
50V
100pF(J)
R2032
NOT MOUNT
L2008
2.2uH(J)
C2020
50V
100pF(J)
C2015
50V
150pF(J)
R2043
100(J)
R2026
NOT MOUNT
R2038
NOT MOUNT
Q2007
2SC4116-Y(TE85L)
R2029
R2033
CR1/10 681JV
L2007
[L2D]
ZBYS5101-2PT
DVCD_SC
207:2B
FL204
120ohm
W2016
FL202
120ohm
AD1_A_GND

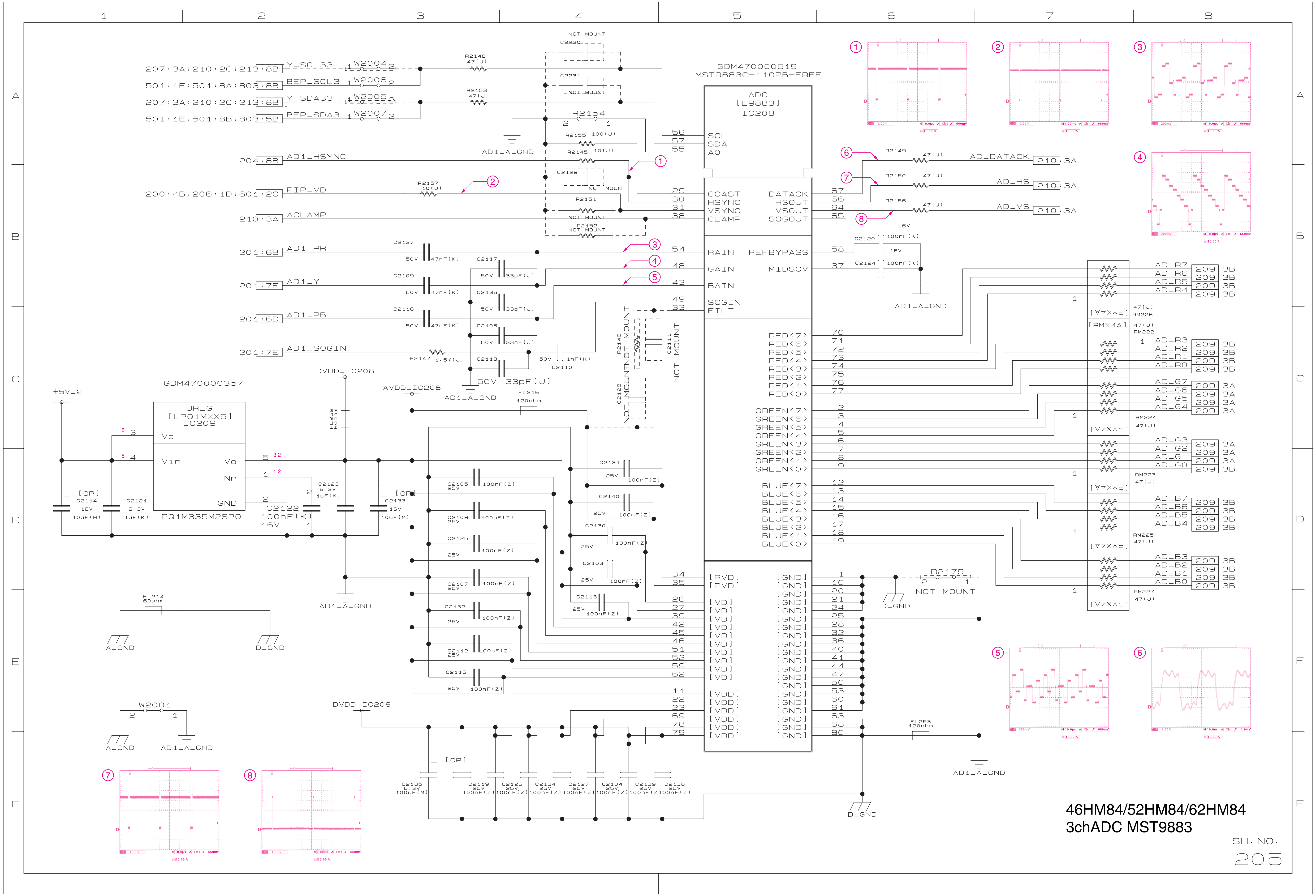
46HM84/52HM84/62HM84
DVCD1_LPF

SH. NO.
203


1
2
3
4
5
6
7
8
A
B
C
D
E
F
R2059
2
1
AD1_A_GND
IC201
TC7WH241FU(TE12L)
[7WH241]
210:6A
GPIO1_HVSW
R2052
2
1
R2053
2
1
1
EN1
NOT MOUNT
R2054
2
1
7
EN2
200:4B:206:1C
HD_2
R2058
2
1
2
[0] 1
6
R2055
2
1
AD1_HSYNC
205:2A
R2048
NOT MOUNT
AD1_A_GND
5
[1] 2
3
R2050
NOT MOUNT
R2057
2
1
NOT MOUNT
FL206
120ohm
8
[Vcc]
AVDD_IC208
4
[Vss]
C2025
25V
100nF(Z)
210:3A
ARAWHS_CS
R2056
2
1
R2049
NOT MOUNT
AD1_A_GND

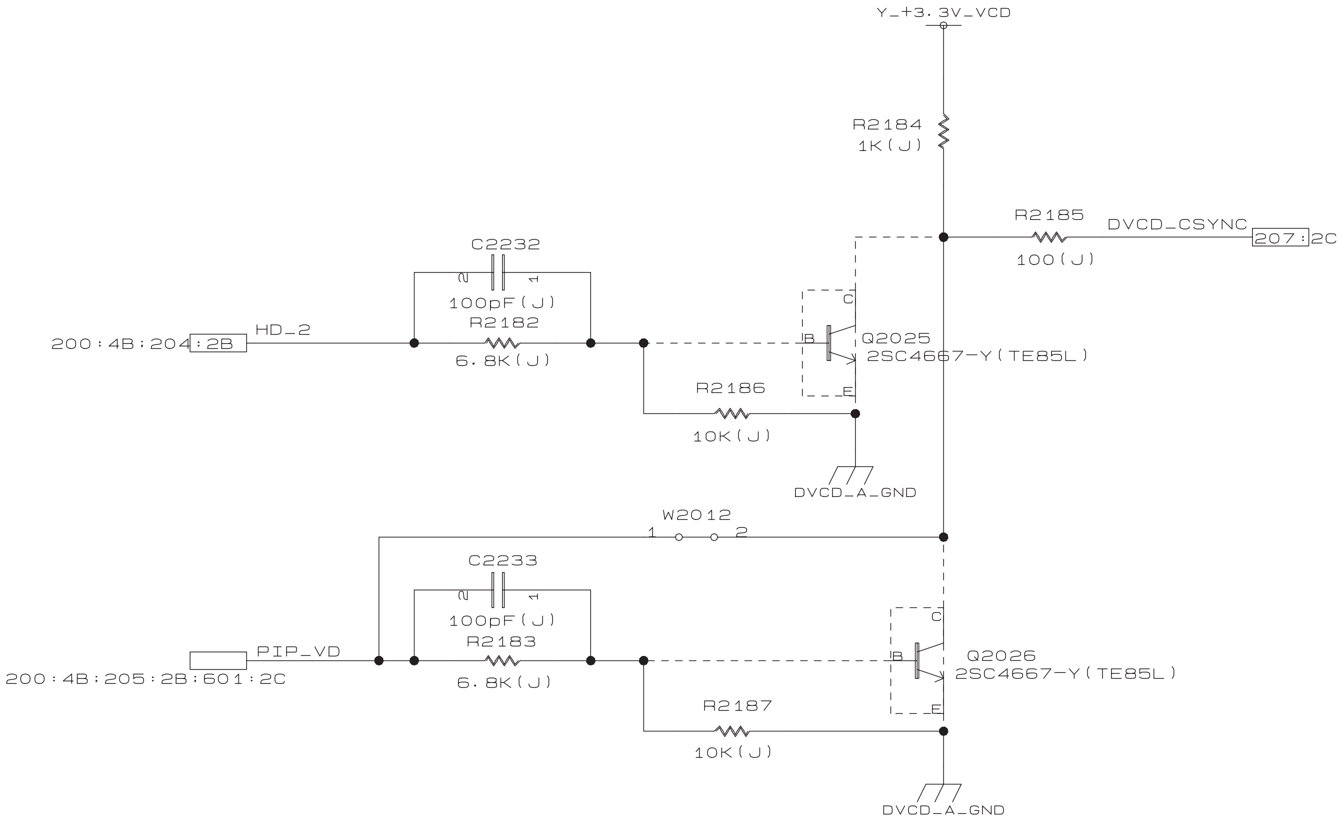
46HM84/52HM84/62HM84
3chADC HD

SH. NO.
204


GDM470000519
MST9883C-110PB-FREE
ADC
[L9883]
IC208
207:3A:210:2C:213:8B
Y-SCL33
W2004
501:1E:501:8A:803:8B
BEP_SCL3
W2006
207:3A:210:2C:213:8B
Y-SDA33
W2005
501:1E:501:8B:803:5B
BEP_SDA3
W2007
R2148
47(J)
R2153
47(J)
NOT MOUNT
C2230
C2231
NOT MOUNT
R2154
AD1_A_GND
R2155 100(J)
R2145 10(J)
C2129
NOT MOUNT
R2151
R2152
NOT MOUNT
204:8B
AD1_HSYNC
200:4B:206:1D:601:2C
PIP_VD
R2157
10(J)
210:3A
ACLAMP
201:6B
AD1_PR
C2137
47nF(K)
201:7E
AD1_Y
C2109
201:6D
AD1_PB
C2116
201:7E
AD1_SOGIN
R2147 1.5K(J)
C2117
33pF(J)
C2136
C2106
C2118
50V 33pF(J)
C2110
1nF(K)
C2146
NOT MOUNT
C2111
NOT MOUNT
C2128
NOT MOUNT
SCL
SDA
A0
56
57
55
COAST
HSYNC
VSYNC
CLAMP
29
30
31
38
DATACK
HSOUT
VSOUT
SOGOUT
67
66
64
65
R2149
47(J)
AD_DATACK
210:3A
R2150
AD_HS
R2156
AD_VS
RAIN
GAIN
BAIN
SOGIN
FILT
54
48
43
49
33
REFBYPASS
MIDSCV
58
37
C2120
100nF(K)
16V
C2124
100nF(K)
AD1_A_GND
RED<7>
RED<6>
RED<5>
RED<4>
RED<3>
RED<2>
RED<1>
RED<0>
GREEN<7>
GREEN<6>
GREEN<5>
GREEN<4>
GREEN<3>
GREEN<2>
GREEN<1>
GREEN<0>
BLUE<7>
BLUE<6>
BLUE<5>
BLUE<4>
BLUE<3>
BLUE<2>
BLUE<1>
BLUE<0>
AD_R7
AD_R6
AD_R5
AD_R4
209:3B
RM226
47(J)
[RMX4A]
RM222
AD_R3
AD_R2
AD_R1
AD_R0
AD_G7
AD_G6
AD_G5
AD_G4
209:3A
RM224
AD_G3
AD_G2
AD_G1
AD_G0
RM223
AD_B7
AD_B6
AD_B5
AD_B4
RM225
AD_B3
AD_B2
AD_B1
AD_B0
RM227
[PVD]
[VD]
[VDD]
[GND]
R2179
NOT MOUNT
D_GND
FL253
120ohm
AD1_A_GND
GDM470000357
UREG
[LPQ1MXX5]
IC209
Vc
Vin
Vo
Nr
GND
PQ1M335M2SPQ
+5V_2
C2114
16V
10uF(M)
[CP]
C2121
6.3V
1uF(K)
C2122
100nF(K)
16V
C2123
6.3V
1uF(K)
C2133
16V
10uF(M)
DVDD_IC208
AVDD_IC208
FL252
600ohm
FL216
120ohm
C2105 25V 100nF(Z)
C2108 25V 100nF(Z)
C2125 25V 100nF(Z)
C2107 25V 100nF(Z)
C2132 25V 100nF(Z)
C2112 25V 100nF(Z)
C2115 25V 100nF(Z)
C2131 25V 100nF(Z)
C2140 25V 100nF(Z)
C2130 25V 100nF(Z)
C2103 25V 100nF(Z)
C2113 25V 100nF(Z)
AD1_A_GND
FL214
600ohm
A_GND
D_GND
W2001
A_GND
AD1_A_GND
DVDD_IC208
C2135 6.3V 100uF(M)
C2119 25V 100nF(Z)
C2126 25V 100nF(Z)
C2134 25V 100nF(Z)
C2127 25V 100nF(Z)
C2104 25V 100nF(Z)
C2139 25V 100nF(Z)
C2138 25V 100nF(Z)
D_GND
①
②
③
④
⑤
⑥
⑦
⑧

46HM84/52HM84/62HM84
3chADC MST9883

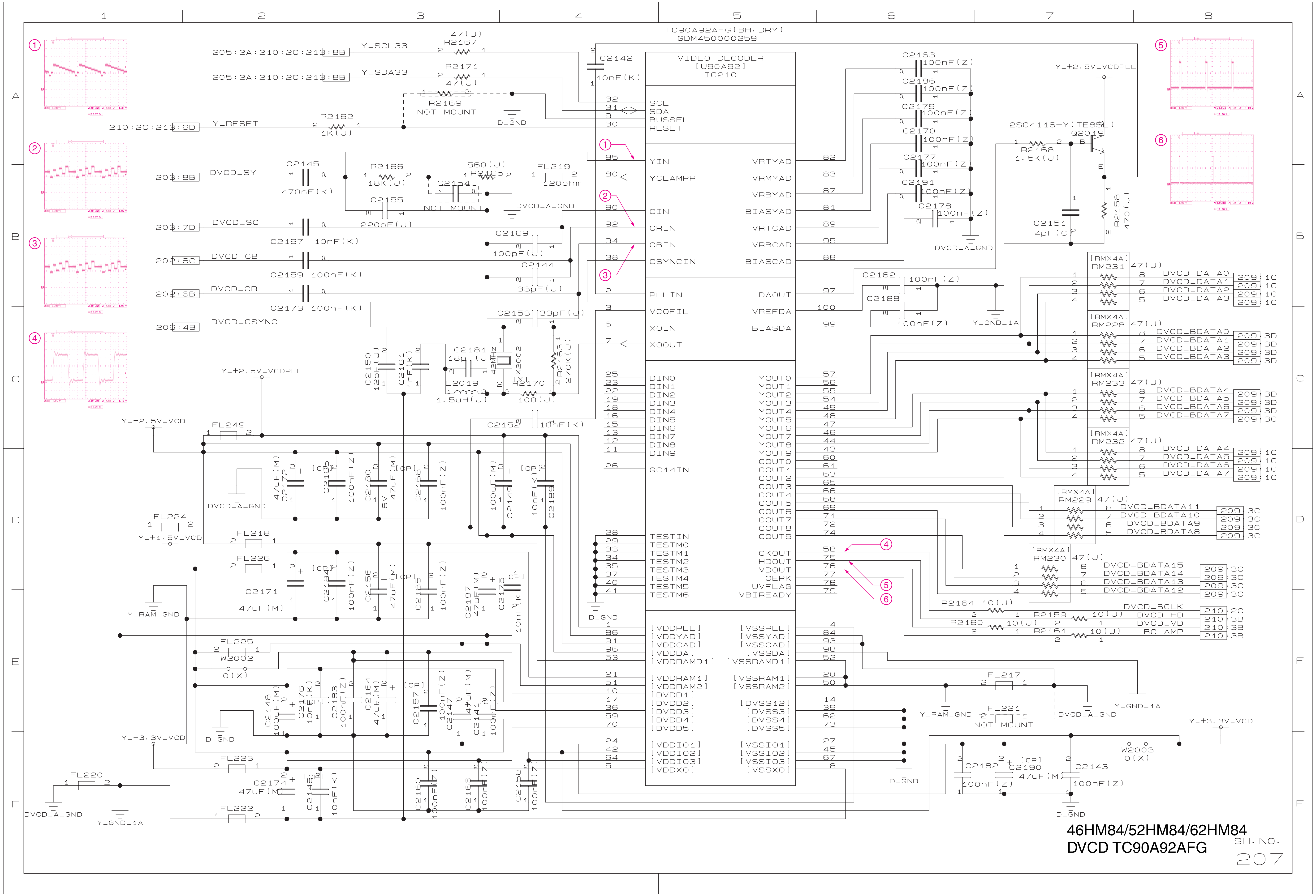
SH. NO.
205



Y_+3.3V_VCD
R2184
1K(J)
R2185
100(J)
DVCD_CSYNC
207:2C
C2232
100pF(J)
R2182
6.8K(J)
HD_2
200:4B:204:2B
C
B
E
Q2025
2SC4667-Y(TE85L)
R2186
10K(J)
DVCD_A_GND
W2012
1
2
C2233
100pF(J)
R2183
6.8K(J)
PIP_VD
200:4B:205:2B:601:2C
Q2026
2SC4667-Y(TE85L)
R2187
10K(J)
DVCD_A_GND

46HM84/52HM84/62HM84
DVCD CSYNCIN

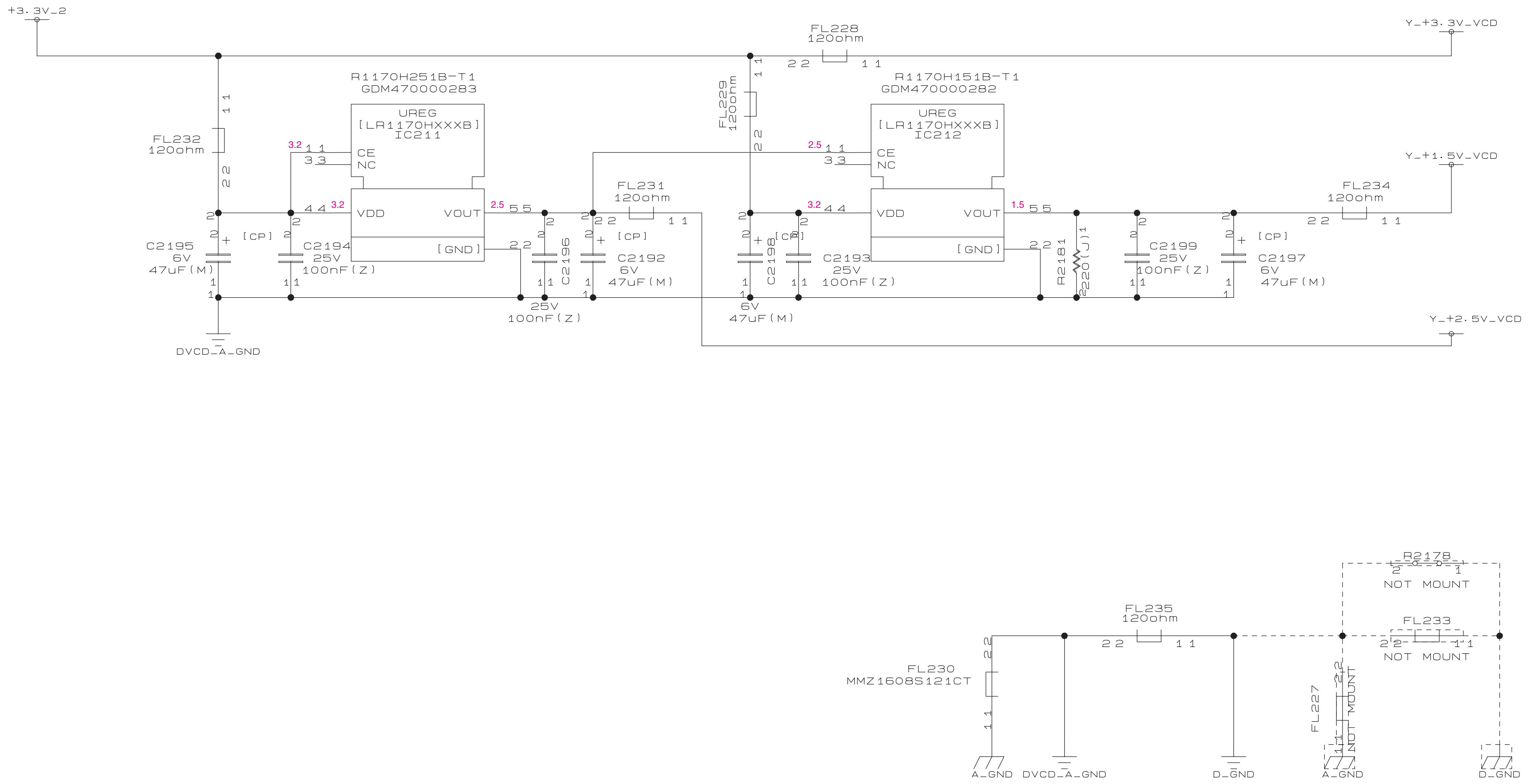
SH. NO.
206



TC90A92AFG(BH.DRY)
GDM450000259
VIDEO DECODER
[U90A92]
IC210
SCL
SDA
BUSSEL
RESET
YIN
YCLAMPP
CIN
CRIN
CBIN
CSYNCIN
PLLIN
VCOFIL
XOIN
XOOUT
VRTYAD
VRMYAD
VRBYAD
BIASYAD
VRTCAD
VRBCAD
BIASCAD
DAOUT
VREFDA
BIASDA
DIN0
DIN1
DIN2
DIN3
DIN4
DIN5
DIN6
DIN7
DIN8
DIN9
GC14IN
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
YOUT8
YOUT9
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
COUT8
COUT9
CKOUT
HDOUT
VDOUT
OEPK
UVFLAG
VBIREADY
TESTIN
TESTM0
TESTM1
TESTM2
TESTM3
TESTM4
TESTM5
TESTM6
[VDDPLL]
[VDDYAD]
[VDDCAD]
[VDDDA]
[VDDRAMD1]
[VDDRAM1]
[VDDRAM2]
[DVDD1]
[DVDD2]
[DVDD3]
[DVDD4]
[DVDD5]
[VDDIO1]
[VDDIO2]
[VDDIO3]
[VDDXO]
[VSSPLL]
[VSSYAD]
[VSSCAD]
[VSSDA]
[VSSRAMD1]
[VSSRAM1]
[VSSRAM2]
[DVSS12]
[DVSS3]
[DVSS4]
[DVSS5]
[VSSIO1]
[VSSIO2]
[VSSIO3]
[VSSXO]
205:2A:210:2C:213:8B
Y_SCL33
205:2A:210:2C:213:8B
Y_SDA33
210:2C:213:6D
Y_RESET
203:8B
DVCD_SY
203:7D
DVCD_SC
202:6C
DVCD_CB
202:6B
DVCD_CR
206:4B
DVCD_CSYNC
R2167 47(J)
R2171 47(J)
R2169 NOT MOUNT
R2162 1K(J)
C2142 10nF(K)
C2145 470nF(K)
R2166 18K(J)
R2165 560(J)
FL219 120ohm
C2154 NOT MOUNT
C2155 220pF(J)
C2167 10nF(K)
C2159 100nF(K)
C2173 100nF(K)
C2169 100pF(J)
C2144 33pF(J)
C2153 33pF(J)
C2150 12pF(J)
C2161 1nF(K)
C2181 18pF(J)
L2019 1.5uH(J)
X2002 42MHz
R2170 100(J)
R2163 270K(J)
C2152 10nF(K)
D_GND
DVCD_A_GND
Y_+2.5V_VCDPLL
Y_+2.5V_VCD
FL249
C2172 47uF(M)
C2165 [CP]
C2180 100nF(Z)
6V 47uF(M)
C2168 [CP] 100nF(Z)
C2149 100uF(M)
C2189 [CP] 10nF(K)
FL224
Y_+1.5V_VCD
FL218
FL226
C2171 47uF(M)
C2184 [CP] 100nF(Z)
C2156 47uF(M)
C2185 [CP] 100nF(Z)
C2187 47uF(M)
C2175 [CP] 10nF(K)
Y_RAM_GND
FL225
W2002 0(X)
C2148 100uF(M)
C2176 10nF(K)
C2183 100nF(Z)
C2164 47uF(M)
C2157 [CP] 100nF(Z)
C2147 47uF(M)
C2141 100nF(Z)
Y_+3.3V_VCD
FL223
FL220
FL222
C2174 47uF(M)
C2146 [CP] 10nF(K)
C2160 100nF(Z)
C2166 100nF(Z)
C2158 100nF(Z)
Y_GND_1A
C2163 100nF(Z)
C2186 100nF(Z)
C2179 100nF(Z)
C2170 100nF(Z)
C2177 100nF(Z)
C2191 100nF(Z)
C2178 100nF(Z)
C2162 100nF(Z)
C2188 100nF(Z)
2SC4116-Y(TE85L)
Q2019
R2168 1.5K(J)
C2151 4pF(C)
R2158 470(J)
[RMX4A] RM231 47(J)
DVCD_DATA0
DVCD_DATA1
DVCD_DATA2
DVCD_DATA3
[RMX4A] RM228 47(J)
DVCD_BDATA0
DVCD_BDATA1
DVCD_BDATA2
DVCD_BDATA3
[RMX4A] RM233 47(J)
DVCD_BDATA4
DVCD_BDATA5
DVCD_BDATA6
DVCD_BDATA7
[RMX4A] RM232 47(J)
DVCD_DATA4
DVCD_DATA5
DVCD_DATA6
DVCD_DATA7
[RMX4A] RM229 47(J)
DVCD_BDATA11
DVCD_BDATA10
DVCD_BDATA9
DVCD_BDATA8
[RMX4A] RM230 47(J)
DVCD_BDATA15
DVCD_BDATA14
DVCD_BDATA13
DVCD_BDATA12
R2164 10(J)
DVCD_BCLK
R2159 10(J)
DVCD_HD
R2160 10(J)
DVCD_VD
R2161 10(J)
BCLAMP
209:1C
209:3D
209:3C
210:2C
210:3B
FL217
FL221 NOT MOUNT
W2003 0(X)
C2182 100nF(Z)
C2190 [CP] 47uF(M)
C2143 100nF(Z)
①
②
③
④
⑤
⑥

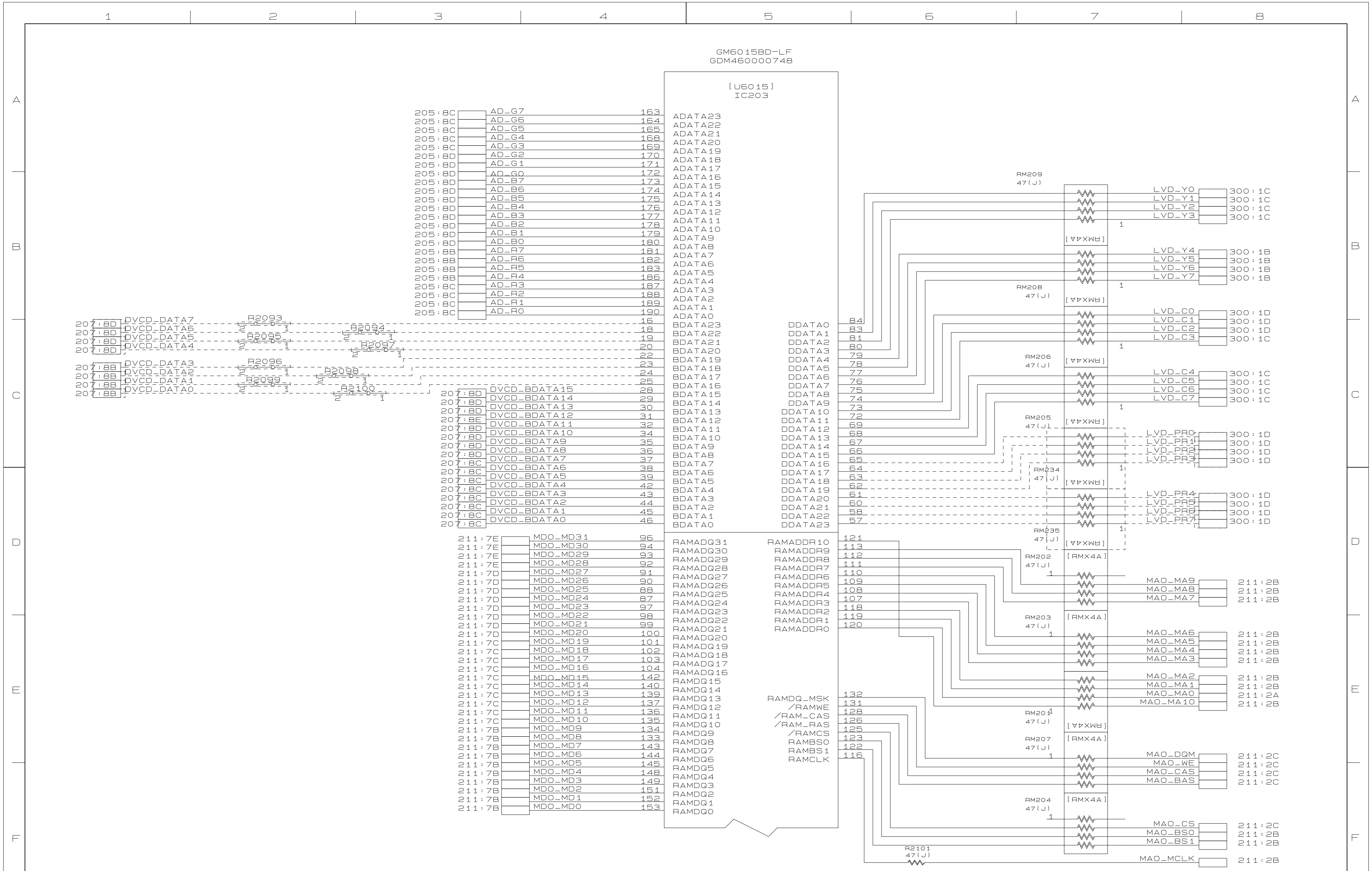
46HM84/52HM84/62HM84
DVCD TC90A92AFG

SH. NO.
207


+3.3V_2
FL228
120ohm
Y_+3.3V_VCD
R1170H251B-T1
GDM470000283
UREG
[LR1170HXXXB]
IC211
CE
NC
VDD
VOUT
[GND]
FL232
120ohm
FL229
120ohm
R1170H151B-T1
GDM470000282
UREG
[LR1170HXXXB]
IC212
CE
NC
VDD
VOUT
[GND]
Y_+1.5V_VCD
FL231
120ohm
FL234
120ohm
3.2
2.5
1.5
[CP]
C2195
6V
47uF(M)
C2194
25V
100nF(Z)
C2196
25V
100nF(Z)
C2192
6V
47uF(M)
C2198
6V
47uF(M)
C2193
25V
100nF(Z)
R2181
220(J)
C2199
25V
100nF(Z)
C2197
6V
47uF(M)
DVCD_A_GND
Y_+2.5V_VCD
R2178
NOT MOUNT
FL235
120ohm
FL233
NOT MOUNT
FL230
MMZ1608S121CT
FL227
NOT MOUNT
A_GND
DVCD_A_GND
D_GND
A_GND
D_GND

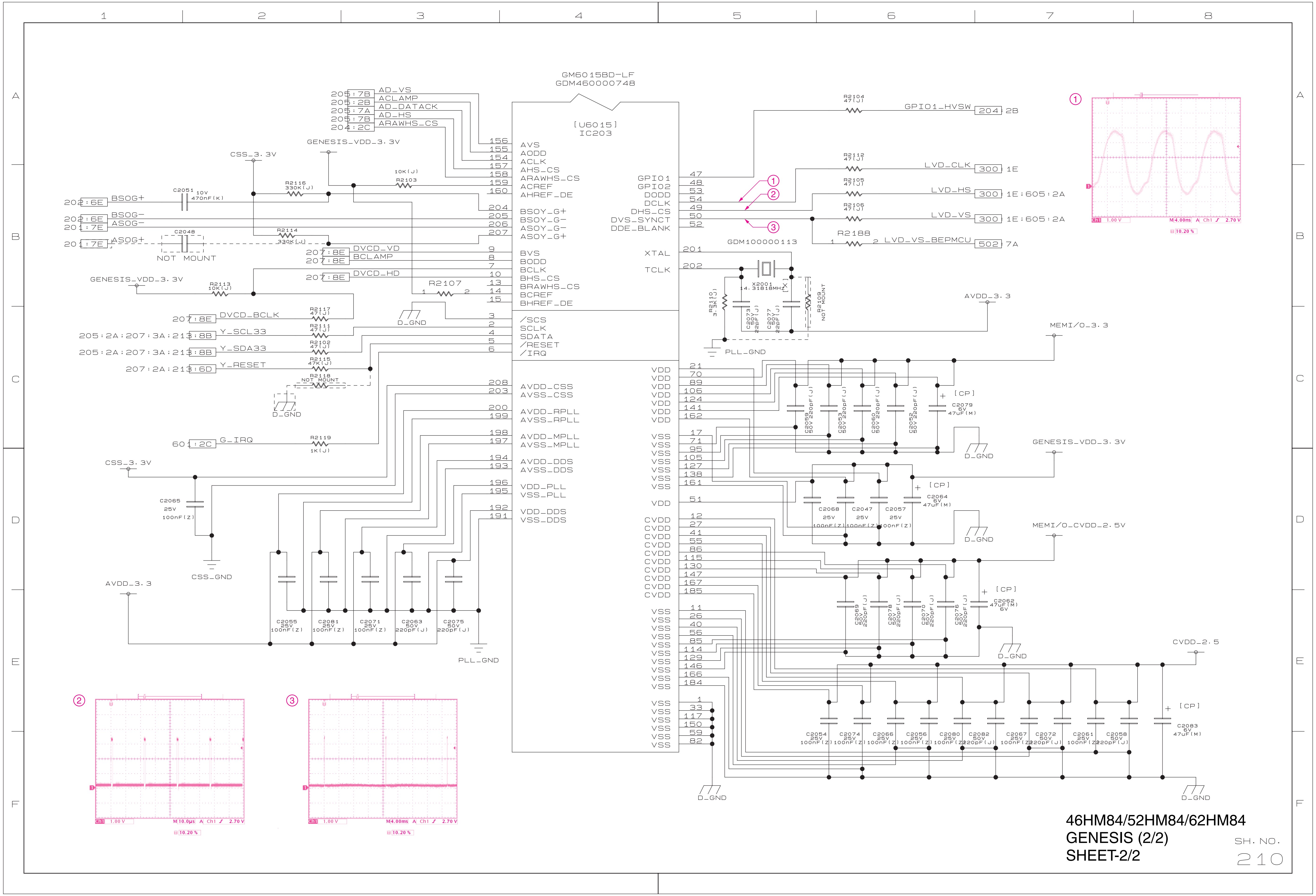
46HM84/52HM84/62HM84
DVCD POWER

SH. NO.
208


GM6015BD-LF
GDM460000748
[U6015]
IC203
205:8C AD_G7 163 ADATA23
205:8C AD_G6 164 ADATA22
205:8C AD_G5 165 ADATA21
205:8C AD_G4 168 ADATA20
205:8C AD_G3 169 ADATA19
205:8D AD_G2 170 ADATA18
205:8D AD_G1 171 ADATA17
205:8D AD_G0 172 ADATA16
205:8D AD_B7 173 ADATA15
205:8D AD_B6 174 ADATA14
205:8D AD_B5 175 ADATA13
205:8D AD_B4 176 ADATA12
205:8D AD_B3 177 ADATA11
205:8D AD_B2 178 ADATA10
205:8D AD_B1 179 ADATA9
205:8D AD_B0 180 ADATA8
205:8B AD_R7 181 ADATA7
205:8B AD_R6 182 ADATA6
205:8B AD_R5 183 ADATA5
205:8B AD_R4 186 ADATA4
205:8C AD_R3 187 ADATA3
205:8C AD_R2 188 ADATA2
205:8C AD_R1 189 ADATA1
205:8C AD_R0 190 ADATA0
207:8D DVCD_DATA7 R2093 16 BDATA23
207:8D DVCD_DATA6 R2094 18 BDATA22
207:8D DVCD_DATA5 R2095 19 BDATA21
207:8D DVCD_DATA4 R2097 20 BDATA20
22 BDATA19
207:8B DVCD_DATA3 R2096 23 BDATA18
207:8B DVCD_DATA2 R2098 24 BDATA17
207:8B DVCD_DATA1 R2099 25 BDATA16
207:8B DVCD_DATA0 R2100
207:8D DVCD_BDATA15 28 BDATA15
207:8D DVCD_BDATA14 29 BDATA14
207:8D DVCD_BDATA13 30 BDATA13
207:8E DVCD_BDATA12 31 BDATA12
207:8D DVCD_BDATA11 32 BDATA11
207:8D DVCD_BDATA10 34 BDATA10
207:8D DVCD_BDATA9 35 BDATA9
207:8D DVCD_BDATA8 36 BDATA8
207:8C DVCD_BDATA7 37 BDATA7
207:8C DVCD_BDATA6 38 BDATA6
207:8C DVCD_BDATA5 39 BDATA5
207:8C DVCD_BDATA4 42 BDATA4
207:8C DVCD_BDATA3 43 BDATA3
207:8C DVCD_BDATA2 44 BDATA2
207:8C DVCD_BDATA1 45 BDATA1
207:8C DVCD_BDATA0 46 BDATA0
DDATA0 84
DDATA1 83
DDATA2 81
DDATA3 80
DDATA4 79
DDATA5 78
DDATA6 77
DDATA7 76
DDATA8 75
DDATA9 74
DDATA10 73
DDATA11 72
DDATA12 69
DDATA13 68
DDATA14 67
DDATA15 66
DDATA16 65
DDATA17 64
DDATA18 63
DDATA19 62
DDATA20 61
DDATA21 60
DDATA22 58
DDATA23 57
RM209 47(J) [RMX4A]
LVD_Y0 300:1C
LVD_Y1 300:1C
LVD_Y2 300:1C
LVD_Y3 300:1C
LVD_Y4 300:1B
LVD_Y5 300:1B
LVD_Y6 300:1B
LVD_Y7 300:1B
RM208 47(J) [RMX4A]
LVD_C0 300:1D
LVD_C1 300:1D
LVD_C2 300:1D
LVD_C3 300:1C
RM206 47(J) [RMX4A]
LVD_C4 300:1C
LVD_C5 300:1C
LVD_C6 300:1C
LVD_C7 300:1C
RM205 47(J) [RMX4A]
LVD_PR0 300:1D
LVD_PR1 300:1D
LVD_PR2 300:1D
LVD_PR3 300:1D
RM234 47(J) [RMX4A]
LVD_PR4 300:1D
LVD_PR5 300:1D
LVD_PR6 300:1D
LVD_PR7 300:1D
RM235 47(J) [RMX4A]
211:7E MDO_MD31 96 RAMADQ31
211:7E MDO_MD30 94 RAMADQ30
211:7E MDO_MD29 93 RAMADQ29
211:7E MDO_MD28 92 RAMADQ28
211:7D MDO_MD27 91 RAMADQ27
211:7D MDO_MD26 90 RAMADQ26
211:7D MDO_MD25 88 RAMADQ25
211:7D MDO_MD24 87 RAMADQ24
211:7D MDO_MD23 97 RAMADQ23
211:7D MDO_MD22 98 RAMADQ22
211:7D MDO_MD21 99 RAMADQ21
211:7D MDO_MD20 100 RAMADQ20
211:7C MDO_MD19 101 RAMADQ19
211:7C MDO_MD18 102 RAMADQ18
211:7C MDO_MD17 103 RAMADQ17
211:7C MDO_MD16 104 RAMADQ16
211:7C MDO_MD15 142 RAMDQ15
211:7C MDO_MD14 140 RAMDQ14
211:7C MDO_MD13 139 RAMDQ13
211:7C MDO_MD12 137 RAMDQ12
211:7C MDO_MD11 136 RAMDQ11
211:7C MDO_MD10 135 RAMDQ10
211:7B MDO_MD9 134 RAMDQ9
211:7B MDO_MD8 133 RAMDQ8
211:7B MDO_MD7 143 RAMDQ7
211:7B MDO_MD6 144 RAMDQ6
211:7B MDO_MD5 145 RAMDQ5
211:7B MDO_MD4 148 RAMDQ4
211:7B MDO_MD3 149 RAMDQ3
211:7B MDO_MD2 151 RAMDQ2
211:7B MDO_MD1 152 RAMDQ1
211:7B MDO_MD0 153 RAMDQ0
RAMADDR10 121
RAMADDR9 113
RAMADDR8 112
RAMADDR7 111
RAMADDR6 110
RAMADDR5 109
RAMADDR4 108
RAMADDR3 107
RAMADDR2 118
RAMADDR1 119
RAMADDR0 120
RM202 47(J) [RMX4A]
MAO_MA9 211:2B
MAO_MA8 211:2B
MAO_MA7 211:2B
RM203 47(J) [RMX4A]
MAO_MA6 211:2B
MAO_MA5 211:2B
MAO_MA4 211:2B
MAO_MA3 211:2B
MAO_MA2 211:2B
MAO_MA1 211:2B
MAO_MA0 211:2A
MAO_MA10 211:2B
RM201 47(J) [RMX4A]
RAMDQ_MSK 132
/RAMWE 131
/RAM_CAS 128
/RAM_RAS 126
/RAMCS 125
RAMBS0 123
RAMBS1 122
RAMCLK 116
RM207 47(J) [RMX4A]
MAO_DQM 211:2C
MAO_WE 211:2C
MAO_CAS 211:2C
MAO_BAS 211:2C
RM204 47(J) [RMX4A]
MAO_CS 211:2C
MAO_BS0 211:2B
MAO_BS1 211:2B
R2101 47(J)
MAO_MCLK 211:2B
1 2 3 4 5 6 7 8
A B C D E F

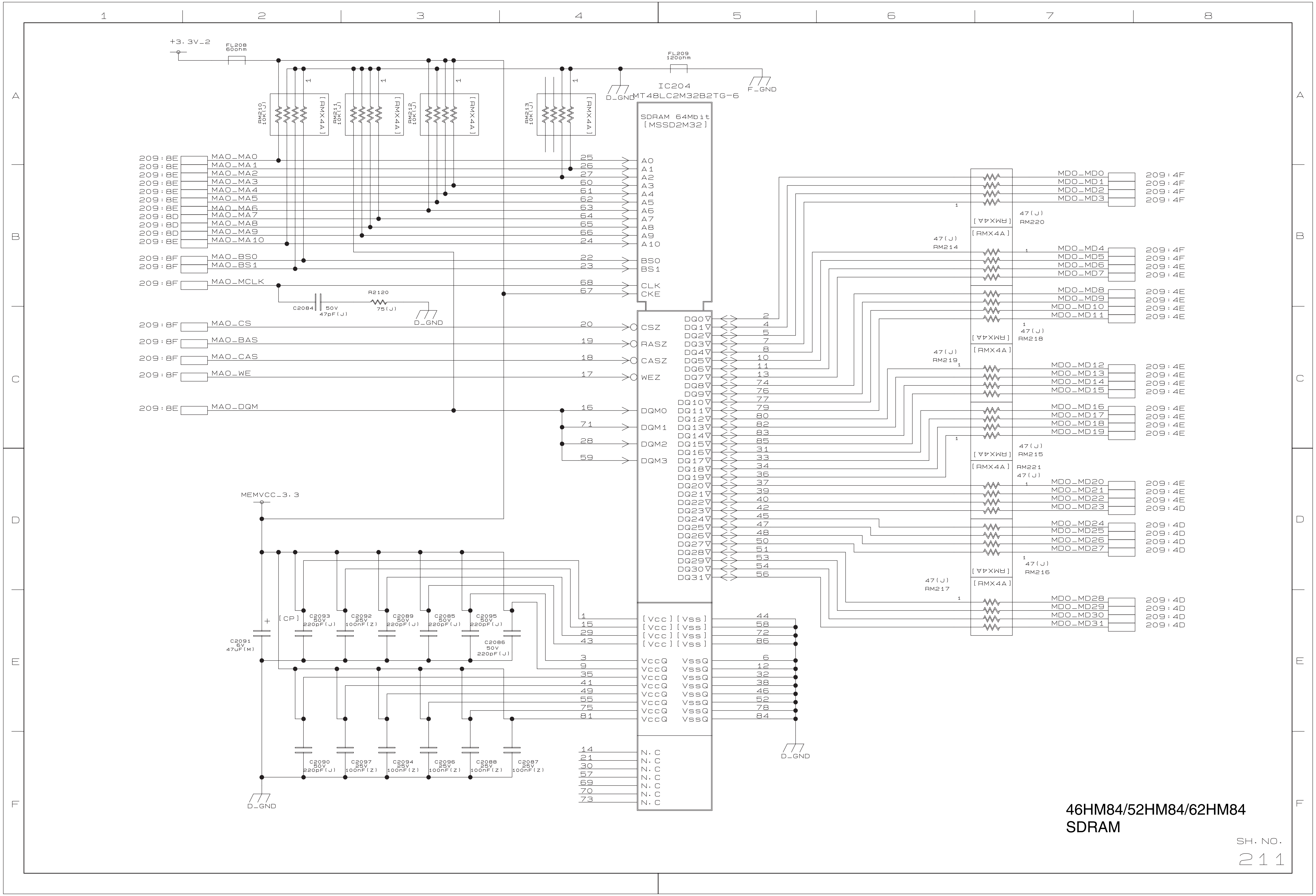
46HM84/52HM84/62HM84
GENESIS(1/2)
SHEET-1/2

SH. NO.
209


GM6015BD-LF
GDM460000748
[U6015]
IC203
AVS
AODD
ACLK
AHS_CS
ARAWHS_CS
ACREF
AHREF_DE
BSOY_G+
BSOY_G-
ASOY_G-
ASOY_G+
BVS
BODD
BCLK
BHS_CS
BRAWHS_CS
BCREF
BHREF_DE
/SCS
SCLK
SDATA
/RESET
/IRQ
AVDD_CSS
AVSS_CSS
AVDD_RPLL
AVSS_RPLL
AVDD_MPLL
AVSS_MPLL
AVDD_DDS
AVSS_DDS
VDD_PLL
VSS_PLL
VDD_DDS
VSS_DDS
GPIO1
GPIO2
DODD
DCLK
DHS_CS
DVS_SYNCT
DDE_BLANK
XTAL
TCLK
VDD
VSS
CVDD
205:7B AD_VS
205:2B ACLAMP
205:7A AD_DATACK
205:7B AD_HS
204:2C ARAWHS_CS
GENESIS_VDD_3.3V
CSS_3.3V
202:6E BSOG+
202:6E BSOG-
201:7E ASOG-
201:7E ASOG+
C2051 10V 470nF(K)
R2116 330K(J)
R2103 10K(J)
C2048
NOT MOUNT
R2114 330K(J)
207:8E DVCD_VD
207:8E BCLAMP
207:8E DVCD_HD
R2113 10K(J)
R2107
D_GND
207:8E DVCD_BCLK
R2117 47(J)
205:2A:207:3A:213:8B Y_SCL33
R2111 47(J)
205:2A:207:3A:213:8B Y_SDA33
R2102 47(J)
207:2A:213:6D Y_RESET
R2115 47K(J)
R2118 NOT MOUNT
601:2C G_IRQ
R2119 1K(J)
C2065 25V 100nF(Z)
CSS_GND
AVDD_3.3
C2055 25V 100nF(Z)
C2081 25V 100nF(Z)
C2071 25V 100nF(Z)
C2063 50V 220pF(J)
C2075 50V 220pF(J)
PLL_GND
R2104 47(J)
GPIO1_HVSW 204 2B
R2112 47(J)
LVD_CLK 300 1E
R2105 47(J)
LVD_HS 300 1E:605:2A
R2106 47(J)
LVD_VS 300 1E:605:2A
R2188
LVD_VS_BEPMCU 502 7A
①
②
③
GDM100000113
X2001 14.31818MHz
R2110 3.3K(J)
C2073 50V 22pF(J)
C2077 50V 22pF(J)
R2109 NOT MOUNT
AVDD_3.3
MEMI/O_3.3
[CP]
C2079 6V 47uF(M)
C2059 50V 220pF(J)
C2053 50V 220pF(J)
C2060 50V 220pF(J)
C2052 50V 220pF(J)
GENESIS_VDD_3.3V
C2068 25V 100nF(Z)
C2047 25V 100nF(Z)
C2057 25V 100nF(Z)
C2064 6V 47uF(M)
MEMI/O_CVDD_2.5V
C2069 50V 220pF(J)
C2078 50V 220pF(J)
C2070 50V 220pF(J)
C2076 50V 220pF(J)
C2062 47uF(M) 6V
CVDD_2.5
C2054 25V 100nF(Z)
C2074 25V 100nF(Z)
C2066 25V 100nF(Z)
C2056 25V 100nF(Z)
C2080 25V 100nF(Z)
C2082 50V 220pF(J)
C2067 25V 100nF(Z)
C2072 50V 220pF(J)
C2061 25V 100nF(Z)
C2058 50V 220pF(J)
C2083 6V 47uF(M)
Ch1 1.00 V M 4.00ms A Ch1 2.70 V
10.20 %
Ch1 1.00 V M 10.0µs A Ch1 2.70 V
1 2 3 4 5 6 7 8
A B C D E F

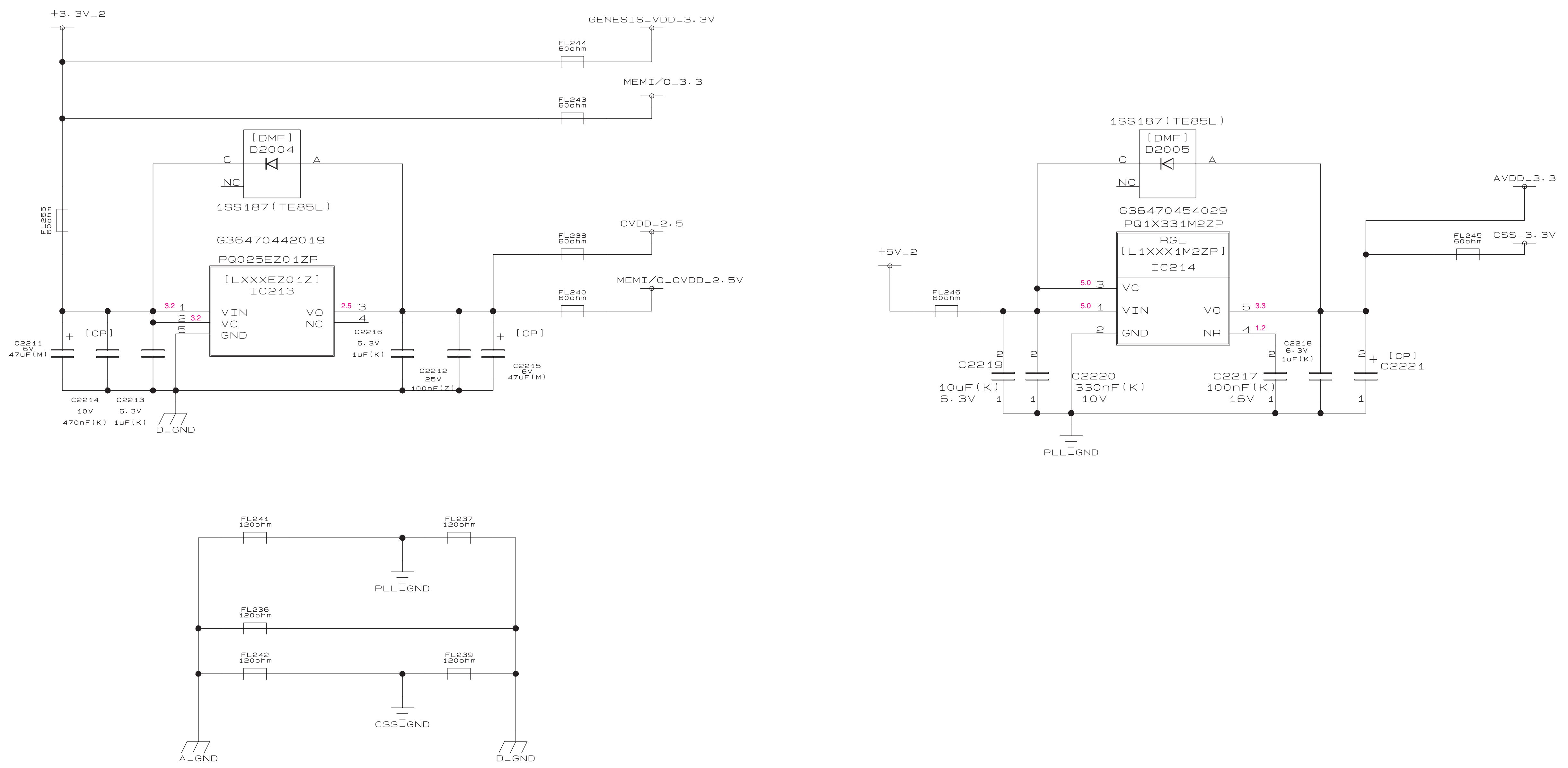
46HM84/52HM84/62HM84
GENESIS (2/2)
SHEET-2/2

SH. NO.
210


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_2
FL208
60ohm
FL209
120ohm
D_GND
F_GND
IC204
MT48LC2M32B2TG-6
SDRAM 64Mbit
[MSSD2M32]
RM210
10K(J)
RM211
10K(J)
RM212
10K(J)
RM213
10K(J)
[RMX4A]
209:8E MAO_MA0
209:8E MAO_MA1
209:8E MAO_MA2
209:8E MAO_MA3
209:8E MAO_MA4
209:8E MAO_MA5
209:8E MAO_MA6
209:8D MAO_MA7
209:8D MAO_MA8
209:8D MAO_MA9
209:8E MAO_MA10
209:8F MAO_BS0
209:8F MAO_BS1
209:8F MAO_MCLK
209:8F MAO_CS
209:8F MAO_BAS
209:8F MAO_CAS
209:8F MAO_WE
209:8E MAO_DQM
25 A0
26 A1
27 A2
60 A3
61 A4
62 A5
63 A6
64 A7
65 A8
66 A9
24 A10
22 BS0
23 BS1
68 CLK
67 CKE
20 CSZ
19 RASZ
18 CASZ
17 WEZ
16 DQM0
71 DQM1
28 DQM2
59 DQM3
C2084
50V
47pF(J)
R2120
75(J)
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 74
DQ9 76
DQ10 77
DQ11 79
DQ12 80
DQ13 82
DQ14 83
DQ15 85
DQ16 31
DQ17 33
DQ18 34
DQ19 36
DQ20 37
DQ21 39
DQ22 40
DQ23 42
DQ24 45
DQ25 47
DQ26 48
DQ27 50
DQ28 51
DQ29 53
DQ30 54
DQ31 56
MDO_MD0 209:4F
MDO_MD1 209:4F
MDO_MD2 209:4F
MDO_MD3 209:4F
MDO_MD4 209:4F
MDO_MD5 209:4F
MDO_MD6 209:4E
MDO_MD7 209:4E
MDO_MD8 209:4E
MDO_MD9 209:4E
MDO_MD10 209:4E
MDO_MD11 209:4E
MDO_MD12 209:4E
MDO_MD13 209:4E
MDO_MD14 209:4E
MDO_MD15 209:4E
MDO_MD16 209:4E
MDO_MD17 209:4E
MDO_MD18 209:4E
MDO_MD19 209:4E
MDO_MD20 209:4E
MDO_MD21 209:4E
MDO_MD22 209:4E
MDO_MD23 209:4D
MDO_MD24 209:4D
MDO_MD25 209:4D
MDO_MD26 209:4D
MDO_MD27 209:4D
MDO_MD28 209:4D
MDO_MD29 209:4D
MDO_MD30 209:4D
MDO_MD31 209:4D
47(J)
RM220
RM214
RM218
RM219
RM215
RM221
RM216
RM217
MEMVCC_3.3
[CP]
C2091
6V
47uF(M)
C2093
50V
220pF(J)
C2092
25V
100nF(Z)
C2089
50V
220pF(J)
C2085
50V
220pF(J)
C2095
50V
220pF(J)
C2086
50V
220pF(J)
C2090
50V
220pF(J)
C2097
25V
100nF(Z)
C2094
25V
100nF(Z)
C2096
25V
100nF(Z)
C2088
25V
100nF(Z)
C2087
25V
100nF(Z)
1 [Vcc] [Vss] 44
15 [Vcc] [Vss] 58
29 [Vcc] [Vss] 72
43 [Vcc] [Vss] 86
3 VccQ VssQ 6
9 VccQ VssQ 12
35 VccQ VssQ 32
41 VccQ VssQ 38
49 VccQ VssQ 46
55 VccQ VssQ 52
75 VccQ VssQ 78
81 VccQ VssQ 84
14 N.C
21 N.C
30 N.C
57 N.C
69 N.C
70 N.C
73 N.C

46HM84/52HM84/62HM84
SDRAM

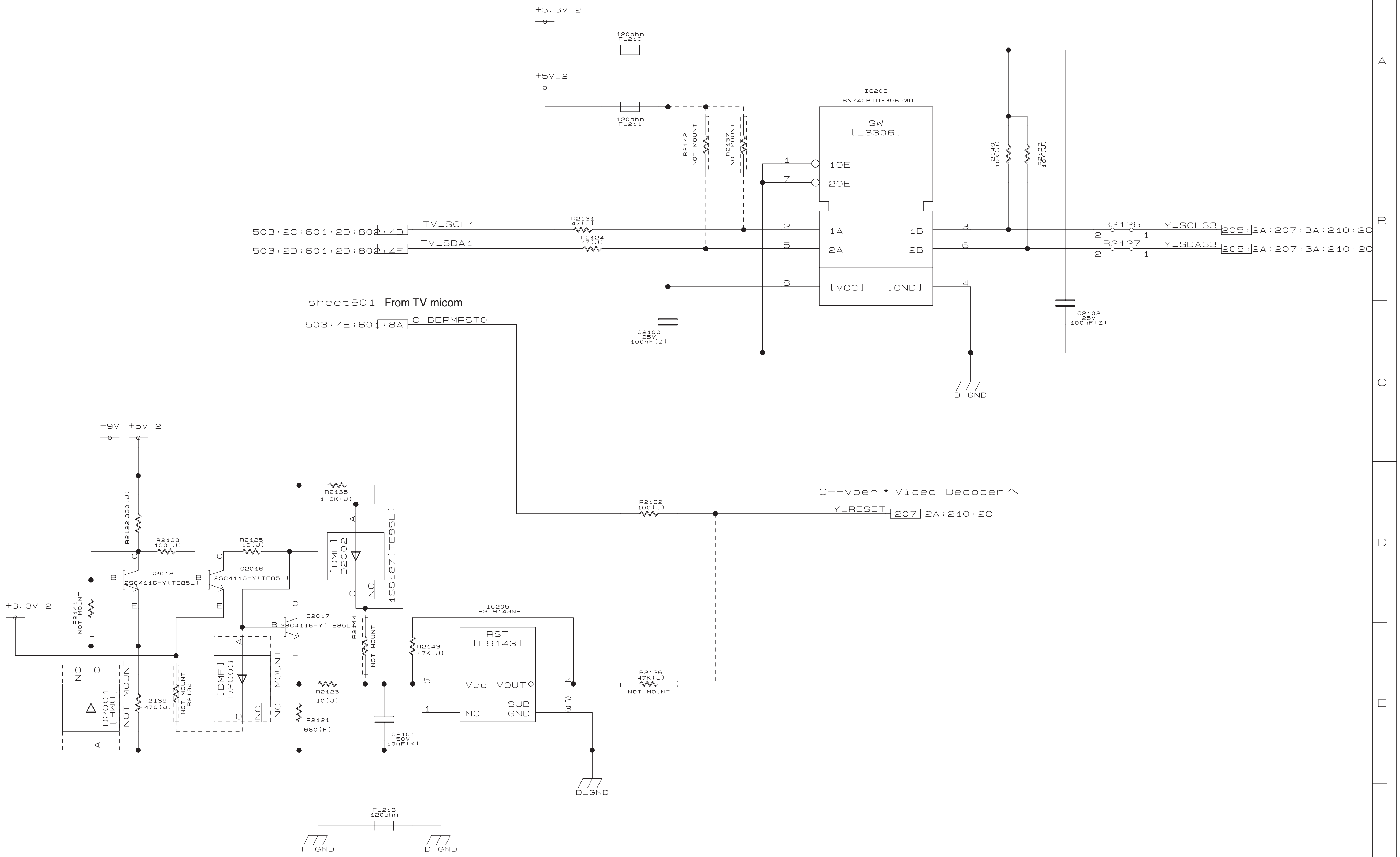
SH. NO.
211


+3.3V_2
GENESIS_VDD_3.3V
FL244 60ohm
MEMI/O_3.3
FL243 60ohm
[DMF] D2004
C
A
NC
1SS187(TE85L)
FL255 60ohm
G36470442019
PQ025EZ01ZP
[LXXXEZ01Z] IC213
VIN
VC
GND
VO
NC
1
2
5
3
4
3.2
3.2
2.5
CVDD_2.5
FL238 60ohm
MEMI/O_CVDD_2.5V
FL240 60ohm
C2211 6V 47uF(M)
[CP]
C2214 10V 470nF(K)
C2213 6.3V 1uF(K)
D_GND
C2216 6.3V 1uF(K)
C2212 25V 100nF(Z)
C2215 6V 47uF(M)
[CP]
1SS187(TE85L)
[DMF] D2005
C
A
NC
G36470454029
PQ1X331M2ZP
RGL [L1XXX1M2ZP] IC214
VC
VIN
GND
VO
NR
3
1
2
5
4
5.0
5.0
3.3
1.2
+5V_2
FL246 60ohm
AVDD_3.3
FL245 60ohm
CSS_3.3V
C2219 10uF(K) 6.3V
C2220 330nF(K) 10V
C2217 100nF(K) 16V
C2218 6.3V 1uF(K)
[CP] C2221
PLL_GND
FL241 120ohm
FL237 120ohm
PLL_GND
FL236 120ohm
FL242 120ohm
FL239 120ohm
CSS_GND
A_GND
D_GND

46HM84/52HM84/62HM84
GENESIS_POWER

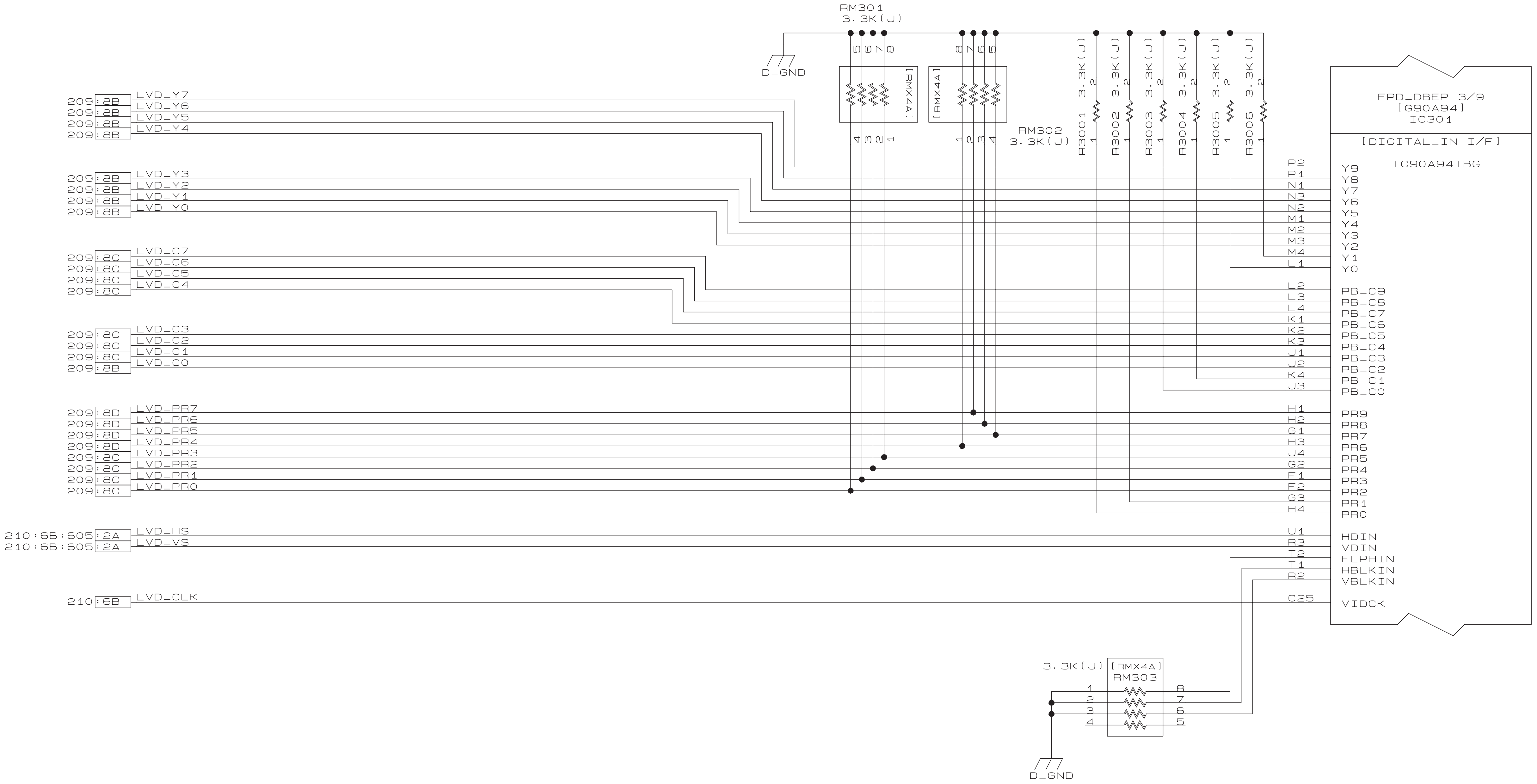
SH. NO.
212

(22/52)


+3.3V_2
120ohm
FL210
+5V_2
120ohm
FL211
IC206
SN74CBTD3306PWR
SW
[L3306]
1OE
2OE
1A
1B
2A
2B
[VCC]
[GND]
R2142
NOT MOUNT
R2137
NOT MOUNT
R2140
10K(J)
R2133
10K(J)
TV_SCL1
TV_SDA1
503:2C:601:2D:802:4D
503:2D:601:2D:802:4E
R2131
47(J)
R2124
47(J)
R2126
R2127
Y_SCL33
Y_SDA33
205:2A:207:3A:210:2C
C2100
25V
100nF(Z)
C2102
25V
100nF(Z)
D_GND
sheet601 From TV micom
503:4E:601:8A
C_BEPMRST0
G-Hyper・Video Decoderへ
R2132
100(J)
Y_RESET
207
2A:210:2C
+9V
+5V_2
+3.3V_2
R2122 330(J)
R2138
100(J)
R2125
10(J)
R2135
1.8K(J)
Q2018
2SC4116-Y(TE85L)
Q2016
2SC4116-Y(TE85L)
Q2017
2SC4116-Y(TE85L)
[DMF]
D2002
1SS187(TE85L)
R2141
NOT MOUNT
R2144
NOT MOUNT
IC205
PST9143NR
RST
[L9143]
Vcc
VOUT
NC
SUB
GND
R2143
47K(J)
R2136
47K(J)
NOT MOUNT
D2001
[DMF]
NOT MOUNT
R2139
470(J)
R2134
NOT MOUNT
[DMF]
D2003
NOT MOUNT
R2123
10(J)
R2121
680(F)
C2101
50V
10nF(K)
FL213
120ohm
F_GND
D_GND

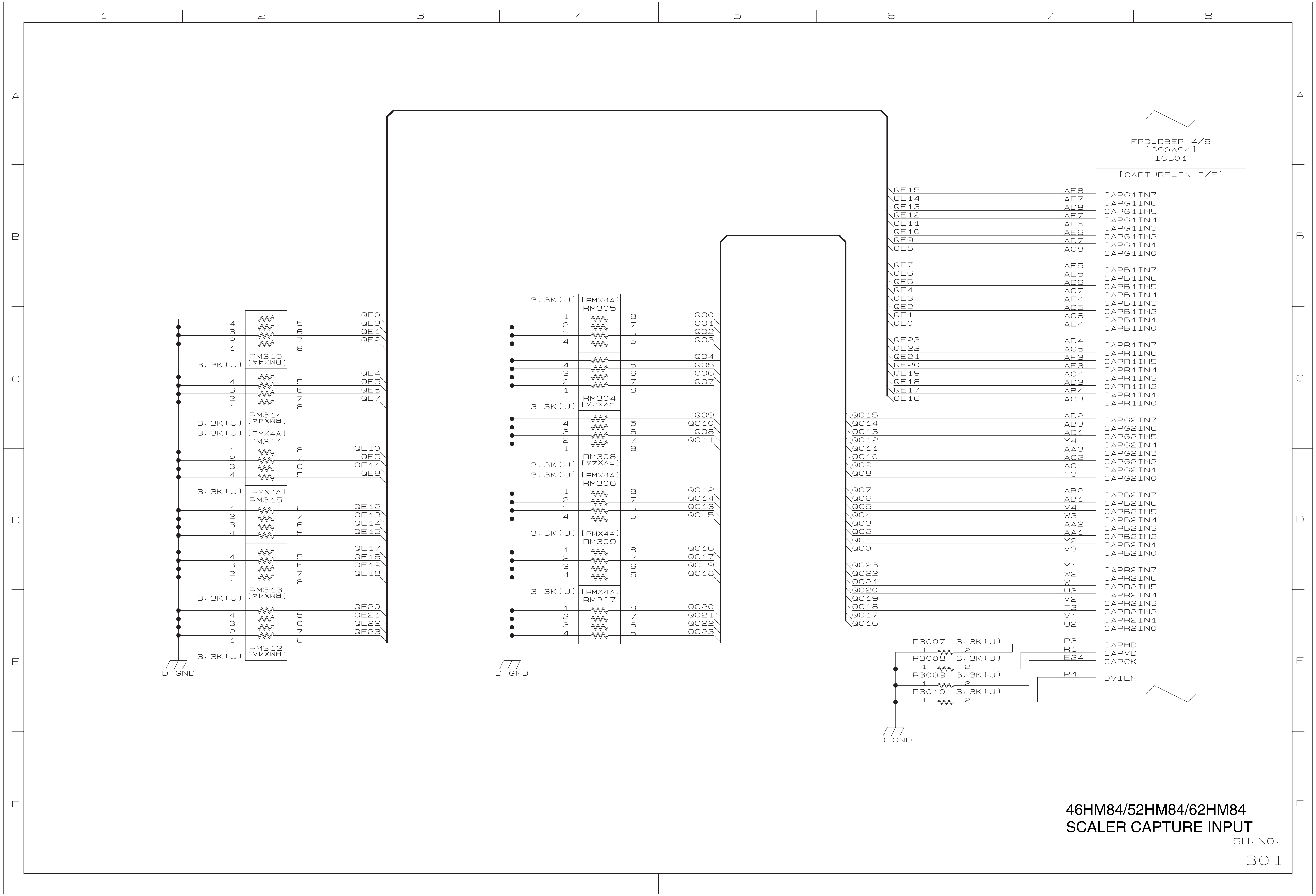
46HM84/52HM84/62HM84
GENESIS_IIC

SH. NO.
213

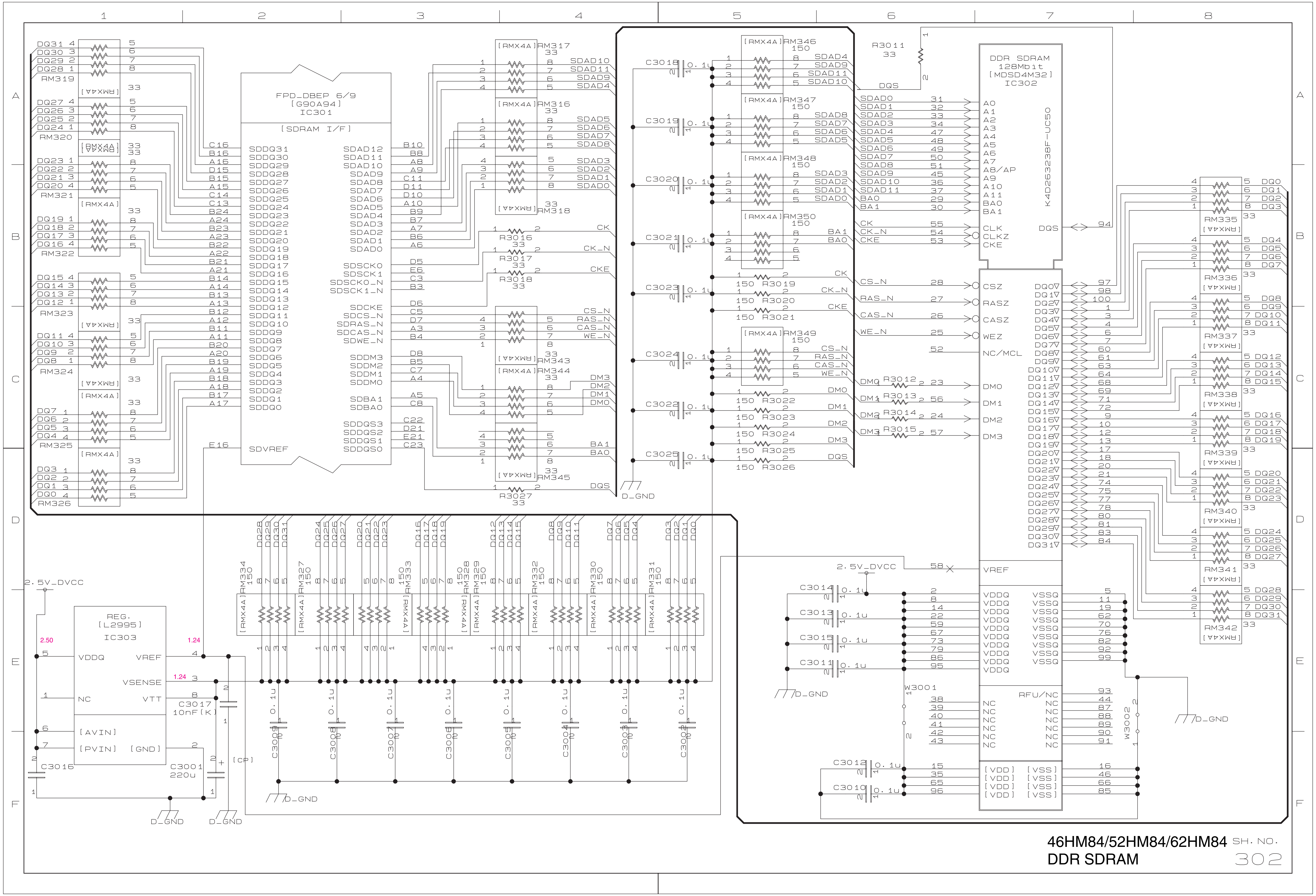

RM301
3.3K(J)
D_GND
[RMX4A]
RM302
3.3K(J)
R3001 3.3K(J)
R3002 3.3K(J)
R3003 3.3K(J)
R3004 3.3K(J)
R3005 3.3K(J)
R3006 3.3K(J)
209:8B LVD_Y7
209:8B LVD_Y6
209:8B LVD_Y5
209:8B LVD_Y4
209:8B LVD_Y3
209:8B LVD_Y2
209:8B LVD_Y1
209:8B LVD_Y0
209:8C LVD_C7
209:8C LVD_C6
209:8C LVD_C5
209:8C LVD_C4
209:8C LVD_C3
209:8C LVD_C2
209:8C LVD_C1
209:8B LVD_C0
209:8D LVD_PR7
209:8D LVD_PR6
209:8D LVD_PR5
209:8D LVD_PR4
209:8C LVD_PR3
209:8C LVD_PR2
209:8C LVD_PR1
209:8C LVD_PR0
210:6B:605:2A LVD_HS
210:6B:605:2A LVD_VS
210:6B LVD_CLK
FPD_DBEP 3/9
[G90A94]
IC301
[DIGITAL_IN I/F]
TC90A94TBG
P2 Y9
P1 Y8
N1 Y7
N3 Y6
N2 Y5
M1 Y4
M2 Y3
M3 Y2
M4 Y1
L1 Y0
L2 PB_C9
L3 PB_C8
L4 PB_C7
K1 PB_C6
K2 PB_C5
K3 PB_C4
J1 PB_C3
J2 PB_C2
K4 PB_C1
J3 PB_C0
H1 PR9
H2 PR8
G1 PR7
H3 PR6
J4 PR5
G2 PR4
F1 PR3
F2 PR2
G3 PR1
H4 PR0
U1 HDIN
R3 VDIN
T2 FLPHIN
T1 HBLKIN
R2 VBLKIN
C25 VIDCK
3.3K(J) [RMX4A]
RM303
D_GND

46HM84/52HM84/62HM84
SCALER DIGITAL INPUT

SH. NO.
300

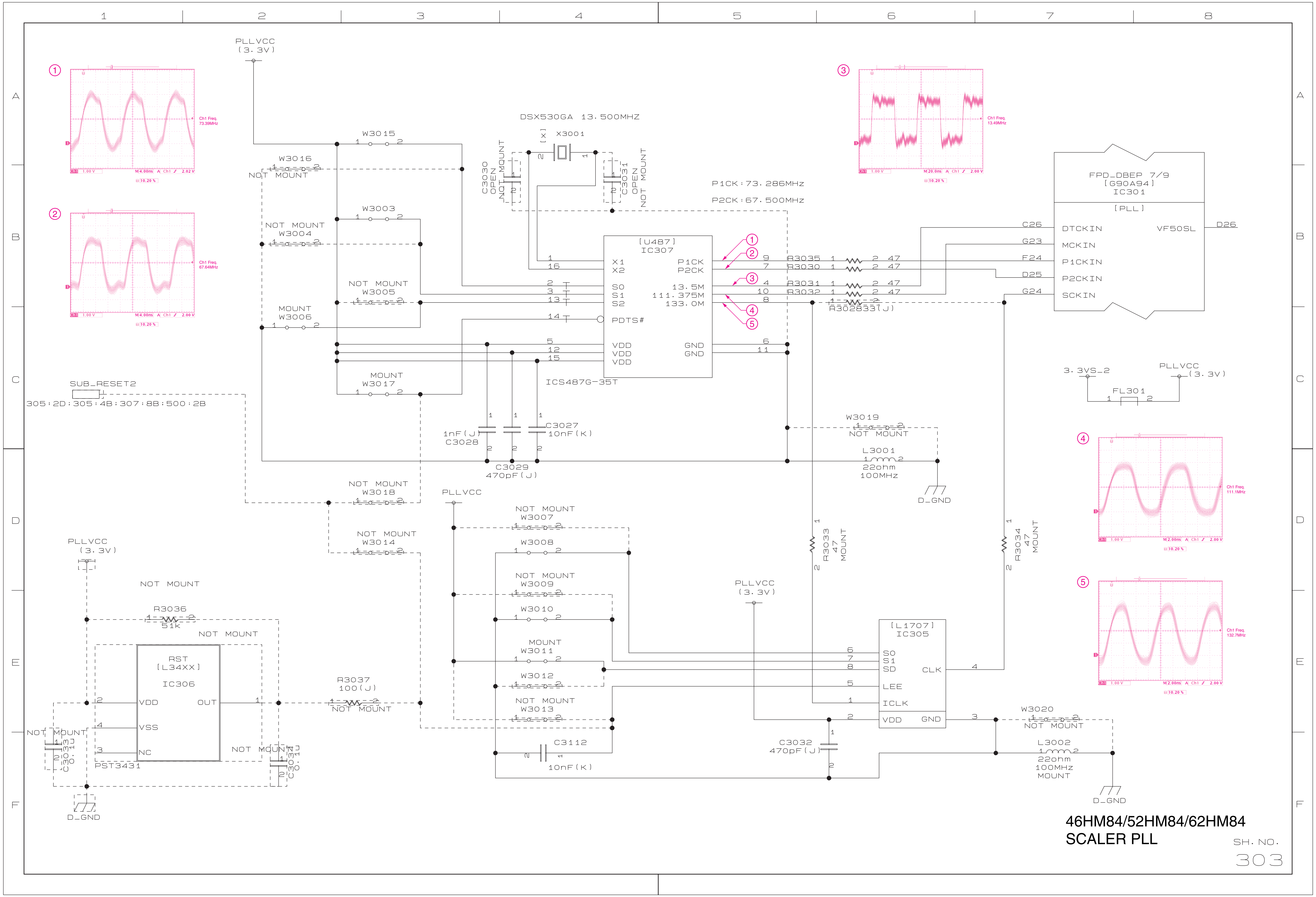

FPD_DBEP 4/9
[G90A94]
IC301
[CAPTURE_IN I/F]
QE15 AE8 CAPG1IN7
QE14 AF7 CAPG1IN6
QE13 AD8 CAPG1IN5
QE12 AE7 CAPG1IN4
QE11 AF6 CAPG1IN3
QE10 AE6 CAPG1IN2
QE9 AD7 CAPG1IN1
QE8 AC8 CAPG1IN0
QE7 AF5 CAPB1IN7
QE6 AE5 CAPB1IN6
QE5 AD6 CAPB1IN5
QE4 AC7 CAPB1IN4
QE3 AF4 CAPB1IN3
QE2 AD5 CAPB1IN2
QE1 AC6 CAPB1IN1
QE0 AE4 CAPB1IN0
QE23 AD4 CAPR1IN7
QE22 AC5 CAPR1IN6
QE21 AF3 CAPR1IN5
QE20 AE3 CAPR1IN4
QE19 AC4 CAPR1IN3
QE18 AD3 CAPR1IN2
QE17 AB4 CAPR1IN1
QE16 AC3 CAPR1IN0
QO15 AD2 CAPG2IN7
QO14 AB3 CAPG2IN6
QO13 AD1 CAPG2IN5
QO12 Y4 CAPG2IN4
QO11 AA3 CAPG2IN3
QO10 AC2 CAPG2IN2
QO9 AC1 CAPG2IN1
QO8 Y3 CAPG2IN0
QO7 AB2 CAPB2IN7
QO6 AB1 CAPB2IN6
QO5 V4 CAPB2IN5
QO4 W3 CAPB2IN4
QO3 AA2 CAPB2IN3
QO2 AA1 CAPB2IN2
QO1 Y2 CAPB2IN1
QO0 V3 CAPB2IN0
QO23 Y1 CAPR2IN7
QO22 W2 CAPR2IN6
QO21 W1 CAPR2IN5
QO20 U3 CAPR2IN4
QO19 V2 CAPR2IN3
QO18 T3 CAPR2IN2
QO17 V1 CAPR2IN1
QO16 U2 CAPR2IN0
R3007 3.3K(J) P3 CAPHD
R3008 3.3K(J) R1 CAPVD
R3009 3.3K(J) E24 CAPCK
R3010 3.3K(J) P4 DVIEN
RM310 3.3K(J) [RMX4A] QE0 QE3 QE1 QE2
RM314 3.3K(J) [RMX4A] QE4 QE5 QE6 QE7
RM311 3.3K(J) [RMX4A] QE10 QE9 QE11 QE8
RM315 3.3K(J) [RMX4A] QE12 QE13 QE14 QE15
RM313 3.3K(J) [RMX4A] QE17 QE16 QE19 QE18
RM312 3.3K(J) [RMX4A] QE20 QE21 QE22 QE23
RM305 3.3K(J) [RMX4A] QO0 QO1 QO2 QO3
RM304 3.3K(J) [RMX4A] QO4 QO5 QO6 QO7
RM308 3.3K(J) [RMX4A] QO9 QO10 QO8 QO11
RM306 3.3K(J) [RMX4A] QO12 QO14 QO13 QO15
RM309 3.3K(J) [RMX4A] QO16 QO17 QO19 QO18
RM307 3.3K(J) [RMX4A] QO20 QO21 QO22 QO23
D_GND
D_GND
D_GND

46HM84/52HM84/62HM84
SCALER CAPTURE INPUT
SH. NO.
301


FPD_DBEP 6/9
[G90A94]
IC301
[SDRAM I/F]
DDR SDRAM
128Mbit
[MDSD4M32]
IC302
K4D263238F-UC50
REG.
[L2995]
IC303
VDDQ
VREF
VSENSE
NC
VTT
[AVIN]
[PVIN]
[GND]
C3016
C3001
220u
C3017
10nF(K)
[CP]
2.5V_DVCC
2.50
1.24
1.24
D_GND
SDVREF
SDSCK0
SDSCK1
SDSCK0_N
SDSCK1_N
SDCKE
SDCS_N
SDRAS_N
SDCAS_N
SDWE_N
SDDM3
SDDM2
SDDM1
SDDM0
SDBA1
SDBA0
SDDQS3
SDDQS2
SDDQS1
SDDQS0
CK
CK_N
CKE
CS_N
RAS_N
CAS_N
WE_N
DQS
CLK
CLKZ
CSZ
RASZ
CASZ
WEZ
NC/MCL
DM0
DM1
DM2
DM3
VREF
VDDQ
VSSQ
RFU/NC
[VDD]
[VSS]
A8/AP
W3001
W3002
R3011
33
RM317
RM316
RM318
RM343
RM344
RM345
RM346
RM347
RM348
RM349
RM350
RM319
RM320
RM321
RM322
RM323
RM324
RM325
RM326
RM327
RM328
RM329
RM330
RM331
RM332
RM333
RM334
RM335
RM336
RM337
RM338
RM339
RM340
RM341
RM342
[RMX4A]
R3016
R3017
R3018
R3019
R3020
R3021
R3022
R3023
R3024
R3025
R3026
R3027
R3012
R3013
R3014
R3015
C3018
C3019
C3020
C3021
C3023
C3024
C3022
C3025
C3014
C3013
C3015
C3011
C3012
C3010
C3009
C3008
C3007
C3006
C3005
C3004
C3003
C3002
0.1u
150

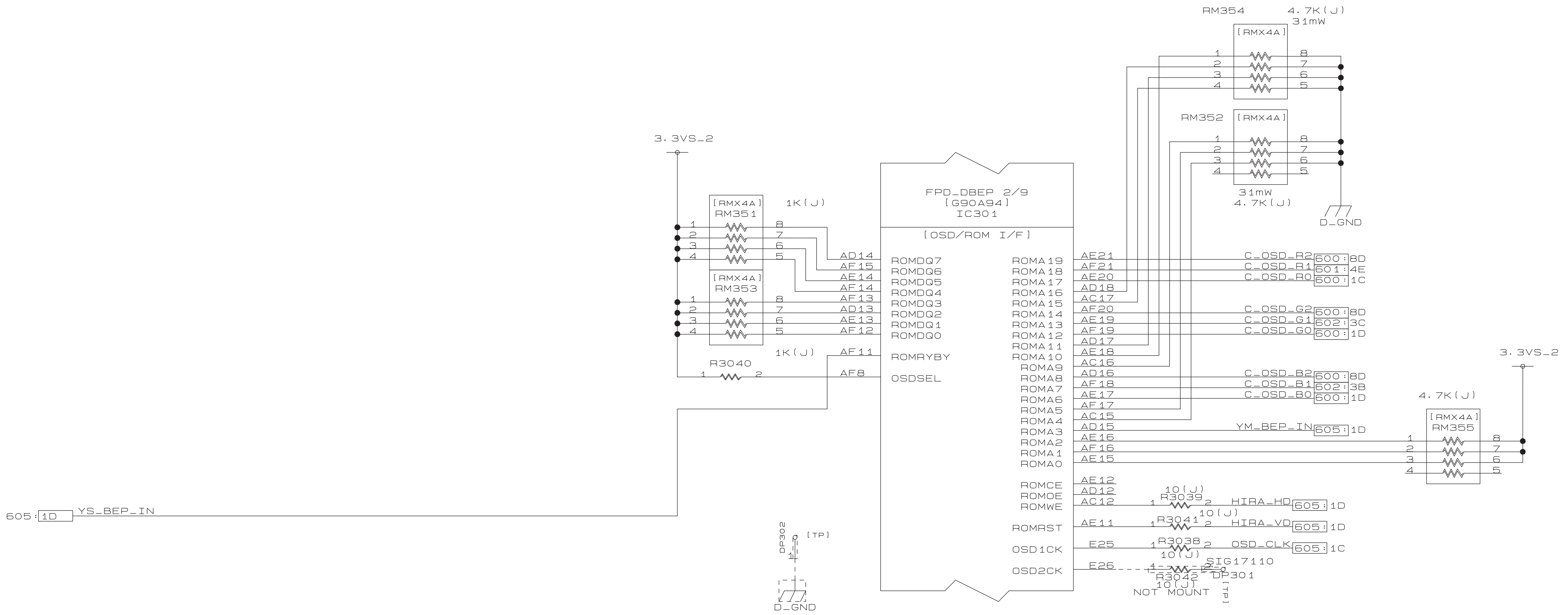
46HM84/52HM84/62HM84 SH. NO.

DDR SDRAM 302


PLLVCC (3.3V)
DSX530GA 13.500MHZ
X3001
C3030 OPEN NOT MOUNT
C3031 OPEN NOT MOUNT
W3015
W3016 NOT MOUNT
W3003
NOT MOUNT W3004
NOT MOUNT W3005
MOUNT W3006
MOUNT W3017
[U487] IC307
X1 X2 S0 S1 S2 PDTS# VDD VDD VDD
P1CK P2CK 13.5M 111.375M 133.0M GND GND
ICS487G-35T
P1CK:73.286MHz
P2CK:67.500MHz
R3035 47
R3030 47
R3031 47
R3032 47
R3028 33(J)
FPD_DBEP 7/9 [G90A94] IC301 [PLL]
DTCKIN MCKIN P1CKIN P2CKIN SCKIN VF50SL
C26 G23 F24 D25 G24 D26
3.3VS_2
FL301
PLLVCC (3.3V)
SUB_RESET2
305:2D:305:4B:307:8B:500:2B
1nF(J) C3028
C3027 10nF(K)
C3029 470pF(J)
W3019 NOT MOUNT
L3001 22ohm 100MHz
D_GND
NOT MOUNT W3018
NOT MOUNT W3014
PLLVCC
NOT MOUNT W3007
W3008
NOT MOUNT W3009
W3010
MOUNT W3011
W3012
NOT MOUNT W3013
C3112 10nF(K)
R3033 47 MOUNT
R3034 47 MOUNT
PLLVCC (3.3V)
[L1707] IC305
S0 S1 SD LEE ICLK VDD CLK GND
C3032 470pF(J)
W3020 NOT MOUNT
L3002 22ohm 100MHz MOUNT
D_GND
PLLVCC (3.3V)
NOT MOUNT
R3036 51K
NOT MOUNT
RST [L34XX] IC306
VDD VSS NC OUT
PST3431
R3037 100(J) NOT MOUNT
NOT MOUNT C3033 0.1
NOT MOUNT C3034 0.1
D_GND
①
Ch1 Freq. 73.30MHz
②
Ch1 Freq. 67.64MHz
③
Ch1 Freq. 13.49MHz
④
Ch1 Freq. 111.1MHz
⑤
Ch1 Freq. 132.7MHz

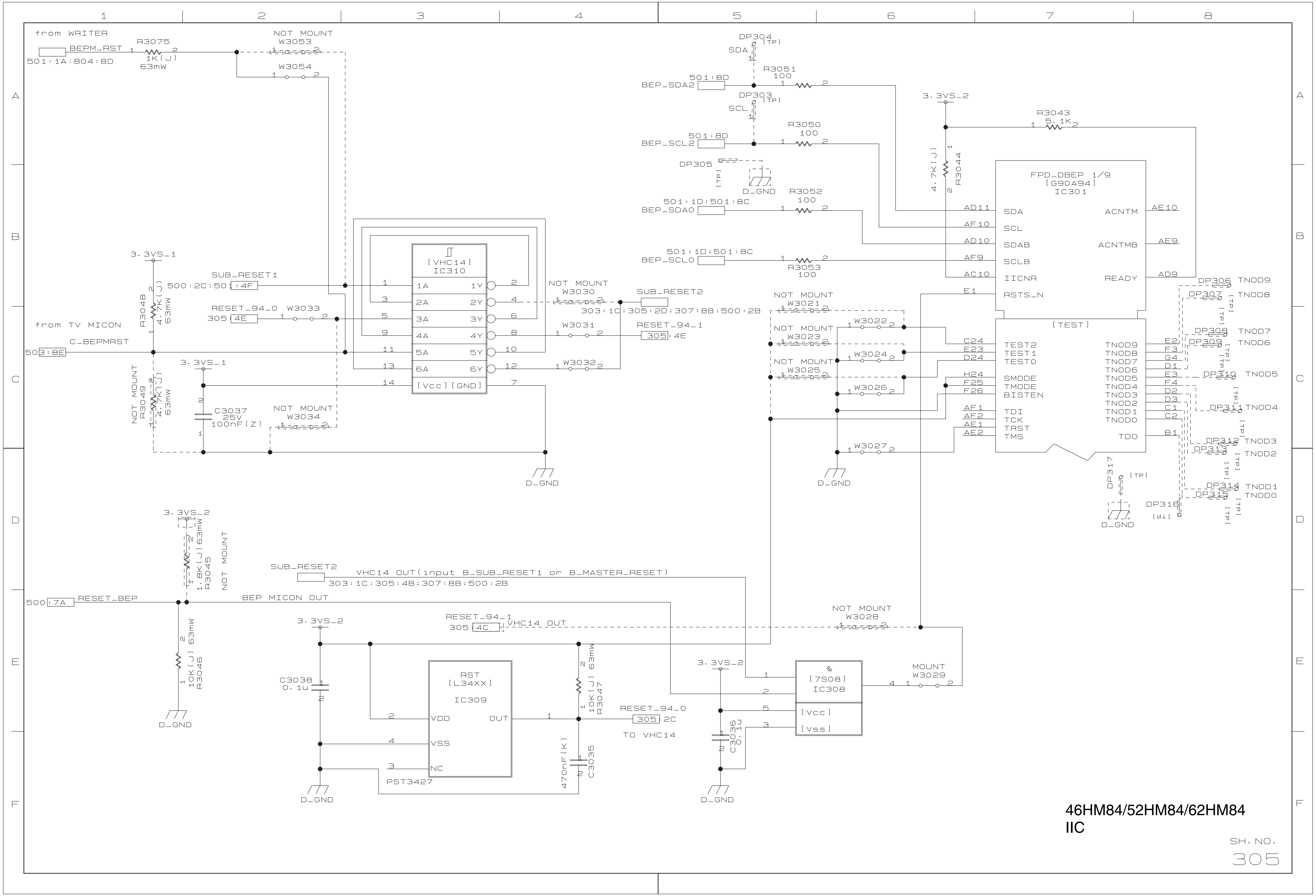
46HM84/52HM84/62HM84
SCALER PLL

SH. NO.
303


RM354
4.7K(J)
31mW
[RMX4A]
RM352
[RMX4A]
31mW
4.7K(J)
D_GND
3.3VS_2
[RMX4A]
RM351
1K(J)
[RMX4A]
RM353
1K(J)
R3040
FPD_DBEP 2/9
[G90A94]
IC301
[OSD/ROM I/F]
AD14 ROMDQ7
AF15 ROMDQ6
AE14 ROMDQ5
AF14 ROMDQ4
AF13 ROMDQ3
AD13 ROMDQ2
AE13 ROMDQ1
AF12 ROMDQ0
AF11 ROMRYBY
AF8 OSDSEL
ROMA19 AE21
ROMA18 AF21
ROMA17 AE20
ROMA16 AD18
ROMA15 AC17
ROMA14 AF20
ROMA13 AE19
ROMA12 AF19
ROMA11 AD17
ROMA10 AE18
ROMA9 AC16
ROMA8 AD16
ROMA7 AF18
ROMA6 AE17
ROMA5 AF17
ROMA4 AC15
ROMA3 AD15
ROMA2 AE16
ROMA1 AF16
ROMA0 AE15
ROMCE AE12
ROMOE AD12
ROMWE AC12
ROMRST AE11
OSD1CK E25
OSD2CK E26
C_OSD_R2 600:8D
C_OSD_R1 601:4E
C_OSD_R0 600:1C
C_OSD_G2 600:8D
C_OSD_G1 602:3C
C_OSD_G0 600:1D
C_OSD_B2 600:8D
C_OSD_B1 602:3B
C_OSD_B0 600:1D
YM_BEP_IN 605:1D
3.3VS_2
4.7K(J)
[RMX4A]
RM355
10(J)
R3039
HIRA_HD 605:1D
10(J)
R3041
HIRA_VD 605:1D
R3038
10(J)
OSD_CLK 605:1C
SIG17110
R3042
DP301
10(J)
NOT MOUNT
[TP]
DP302
[TP]
D_GND
605:1D YS_BEP_IN

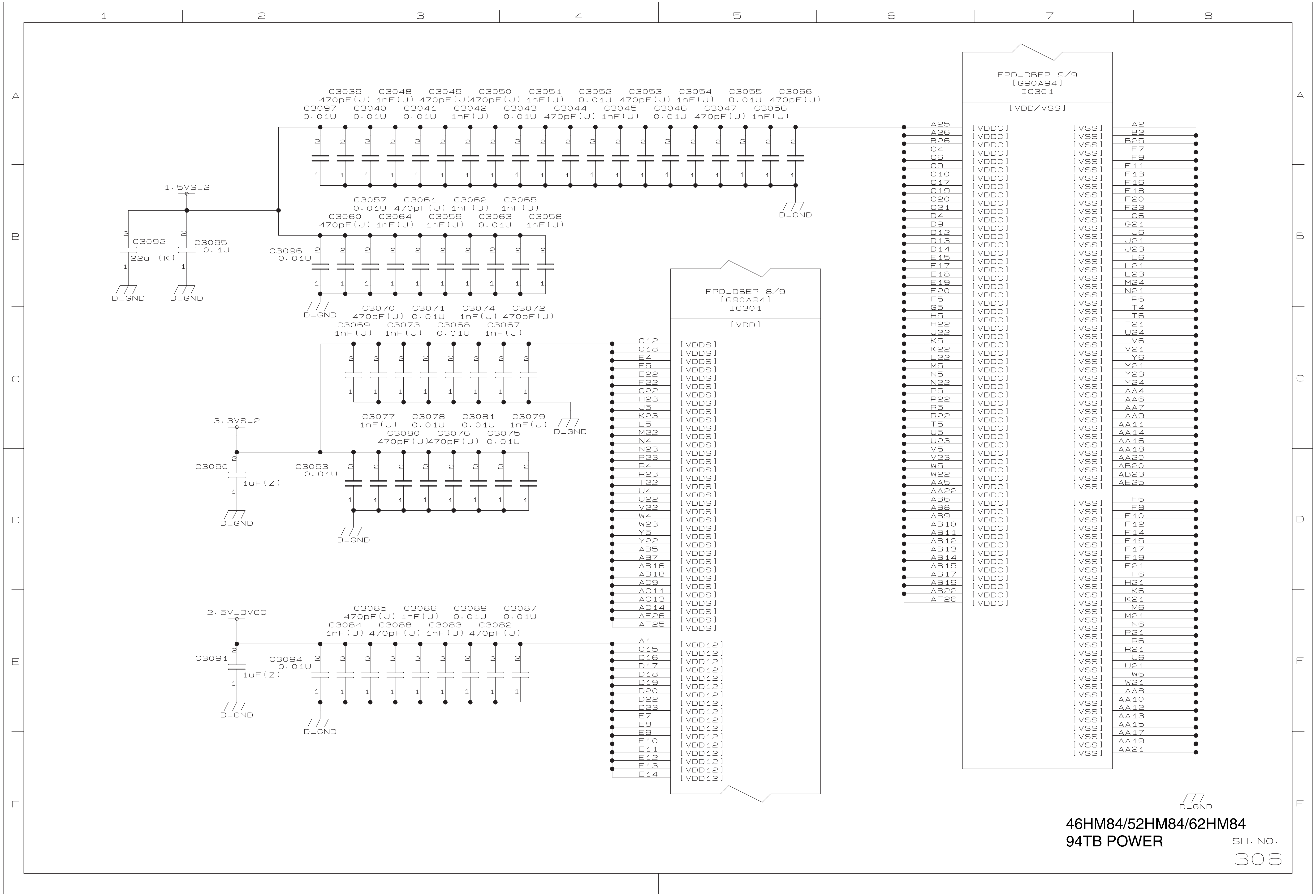
46HM84/52HM84/62HM84
OSD for North America

SH. NO.
304


from WRITER
BEPM_RST
501:1A:804:8D
R3075
1K(J)
63mW
NOT MOUNT
W3053
W3054
from TV MICON
C_BEPMRST
503:8E
3.3VS_1
R3048
4.7K(J)
63mW
NOT MOUNT
R3049
4.7K(J)
63mW
SUB_RESET1
500:2C:501:4F
RESET_94_0
305:4E
W3033
C3037
25V
100nF(Z)
NOT MOUNT
W3034
[VHC14]
IC310
1A
2A
3A
4A
5A
6A
1Y
2Y
3Y
4Y
5Y
6Y
[Vcc] [GND]
NOT MOUNT
W3030
SUB_RESET2
303:1C:305:2D:307:8B:500:2B
W3031
RESET_94_1
305:4E
W3032
D_GND
DP304
SDA
[TP]
BEP_SDA2
501:8D
R3051
100
DP303
SCL
BEP_SCL2
R3050
100
DP305
R3052
100
501:1D:501:8C
BEP_SDA0
BEP_SCL0
R3053
100
3.3VS_2
R3043
5.1K
R3044
4.7K(J)
FPD_DBEP 1/9
[G90A94]
IC301
AD11
AF10
AD10
AF9
AC10
E1
SDA
SCL
SDAB
SCLB
IICNR
RSTS_N
ACNTM
ACNTMB
READY
AE10
AE9
AD9
[TEST]
C24
E23
D24
H24
F25
F26
AF1
AF2
AE1
AE2
TEST2
TEST1
TEST0
SMODE
TMODE
BISTEN
TDI
TCK
TRST
TMS
TDO
TNOD9
TNOD8
TNOD7
TNOD6
TNOD5
TNOD4
TNOD3
TNOD2
TNOD1
TNOD0
E2
F3
G4
D1
E3
F4
D2
D3
C1
C2
B1
NOT MOUNT
W3021
W3022
NOT MOUNT
W3023
W3024
NOT MOUNT
W3025
W3026
W3027
DP306
DP307
DP308
DP309
DP310
DP311
DP312
DP313
DP314
DP315
DP316
DP317
3.3VS_2
R3045
1.8K(J)63mW
NOT MOUNT
500:7A
RESET_BEP
BEP MICON OUT
10K(J) 63mW
R3046
SUB_RESET2
VHC14 OUT(input B_SUB_RESET1 or B_MASTER_RESET)
303:1C:305:4B:307:8B:500:2B
RESET_94_1
305:4C
VHC14 OUT
NOT MOUNT
W3028
C3038
0.1u
RST
[L34XX]
IC309
VDD
VSS
NC
OUT
PST3427
10K(J) 63mW
R3047
470nF(K)
C3035
RESET_94_0
305:2C
TO VHC14
&
[7S08]
IC308
[Vcc]
[Vss]
C3036
0.1u
MOUNT
W3029

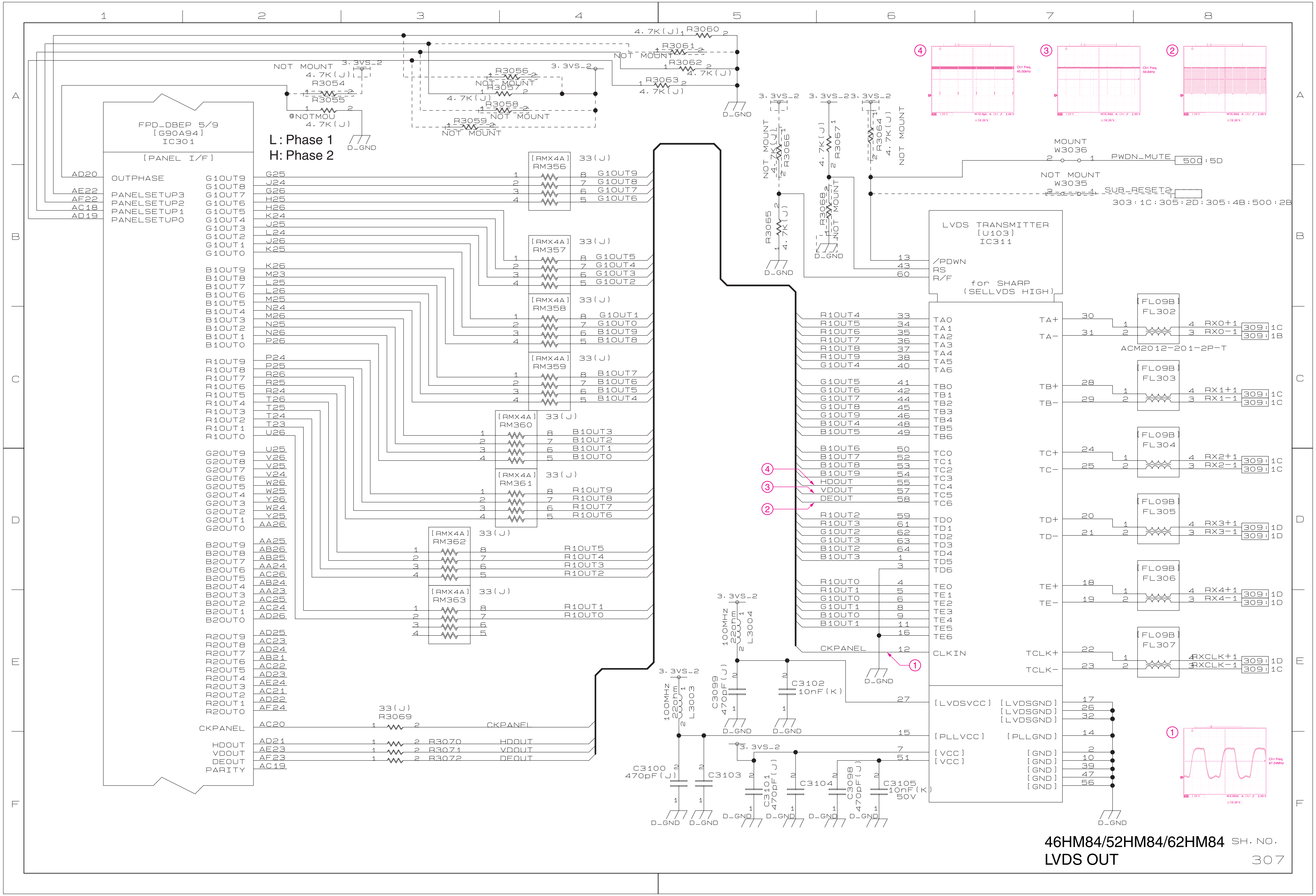
46HM84/52HM84/62HM84
IIC

SH. NO.
305


FPD_DBEP 9/9
[G90A94]
IC301
[VDD/VSS]
FPD_DBEP 8/9
[G90A94]
IC301
[VDD]
1.5VS_2
3.3VS_2
2.5V_DVCC
D_GND
C3039 470pF(J)
C3048 1nF(J)
C3049 470pF(J)
C3050 470pF(J)
C3051 1nF(J)
C3052 0.01U
C3053 470pF(J)
C3054 1nF(J)
C3055 0.01U
C3066 470pF(J)
C3097 0.01U
C3040 0.01U
C3041 0.01U
C3042 1nF(J)
C3043 0.01U
C3044 470pF(J)
C3045 1nF(J)
C3046 0.01U
C3047 470pF(J)
C3056 1nF(J)
C3057 0.01U
C3061 470pF(J)
C3062 1nF(J)
C3065 1nF(J)
C3060 470pF(J)
C3064 1nF(J)
C3059 1nF(J)
C3063 0.01U
C3058 1nF(J)
C3092 22uF(K)
C3095 0.1U
C3096 0.01U
C3070 470pF(J)
C3071 0.01U
C3074 1nF(J)
C3072 470pF(J)
C3069 1nF(J)
C3073 1nF(J)
C3068 0.01U
C3067 1nF(J)
C3077 1nF(J)
C3078 0.01U
C3081 0.01U
C3079 1nF(J)
C3080 470pF(J)
C3076 470pF(J)
C3075 0.01U
C3090 1uF(Z)
C3093 0.01U
C3085 470pF(J)
C3086 1nF(J)
C3089 0.01U
C3087 0.01U
C3084 1nF(J)
C3088 470pF(J)
C3083 1nF(J)
C3082 470pF(J)
C3091 1uF(Z)
C3094 0.01U
C12 C18 E4 E5 E22 F22 G22 H23 J5 K23 L5 M22 N4 N23 P23 R4 R23 T22 U4 U22 V22 W4 W23 Y5 Y22 AB5 AB7 AB16 AB18 AC9 AC11 AC13 AC14 AE26 AF25 [VDDS]
A1 C15 D16 D17 D18 D19 D20 D22 D23 E7 E8 E9 E10 E11 E12 E13 E14 [VDD12]
A25 A26 B26 C4 C6 C9 C10 C17 C19 C20 C21 D4 D9 D12 D13 D14 E15 E17 E18 E19 E20 F5 G5 H5 H22 J22 K5 K22 L22 M5 N5 N22 P5 P22 R5 R22 T5 U5 U23 V5 V23 W5 W22 AA5 AA22 AB6 AB8 AB9 AB10 AB11 AB12 AB13 AB14 AB15 AB17 AB19 AB22 AF26 [VDDC]
A2 B2 B25 F7 F9 F11 F13 F16 F18 F20 F23 G6 G21 J6 J21 J23 L6 L21 L23 M24 N21 P6 T4 T6 T21 U24 V6 V21 Y6 Y21 Y23 Y24 AA4 AA6 AA7 AA9 AA11 AA14 AA16 AA18 AA20 AB20 AB23 AE25 [VSS]
F6 F8 F10 F12 F14 F15 F17 F19 F21 H6 H21 K6 K21 M6 M21 N6 P21 R6 R21 U6 U21 W6 W21 AA8 AA10 AA12 AA13 AA15 AA17 AA19 AA21 [VSS]
1 2 3 4 5 6 7 8
A B C D E F

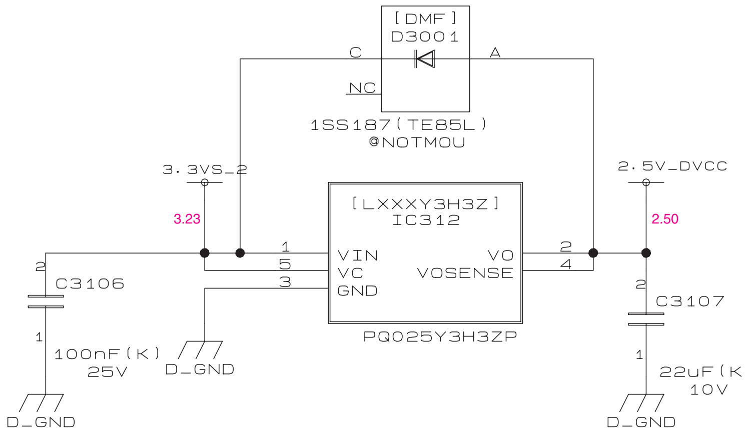
46HM84/52HM84/62HM84
94TB POWER

SH. NO.
306



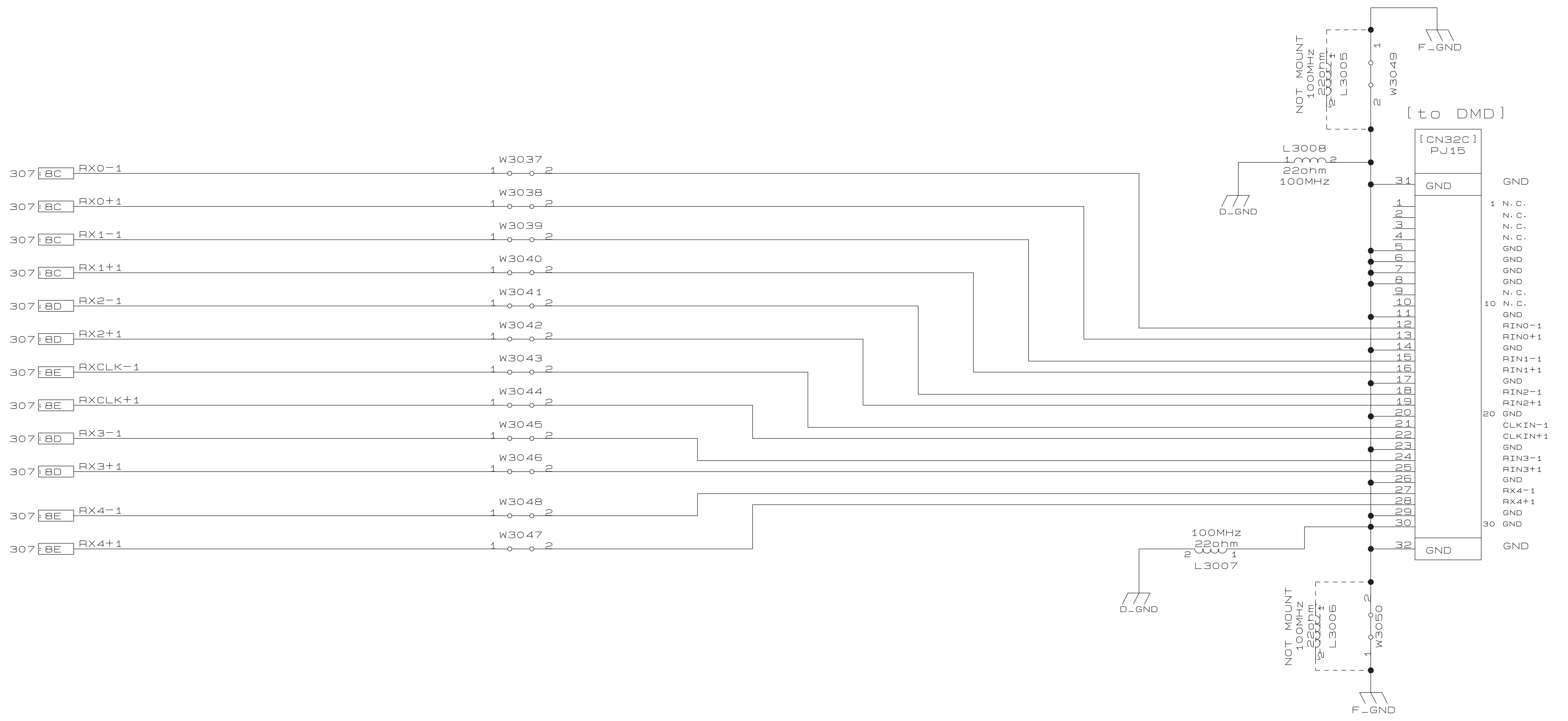
FPD_DBEP 5/9
[G90A94]
IC301
[PANEL I/F]
L : Phase 1
H: Phase 2
OUTPHASE
PANELSETUP3
PANELSETUP2
PANELSETUP1
PANELSETUP0
AD20
AE22
AF22
AC18
AD19
NOT MOUNT
3.3VS_2
4.7K(J)
R3054
R3055
@NOTMOU
D_GND
R3056
R3057
R3058
R3059
R3060
R3061
R3062
R3063
[RMX4A] RM356
[RMX4A] RM357
[RMX4A] RM358
[RMX4A] RM359
[RMX4A] RM360
[RMX4A] RM361
[RMX4A] RM362
[RMX4A] RM363
33(J)
G1OUT9
G1OUT8
G1OUT7
G1OUT6
G1OUT5
G1OUT4
G1OUT3
G1OUT2
G1OUT1
G1OUT0
B1OUT9
B1OUT8
B1OUT7
B1OUT6
B1OUT5
B1OUT4
B1OUT3
B1OUT2
B1OUT1
B1OUT0
R1OUT9
R1OUT8
R1OUT7
R1OUT6
R1OUT5
R1OUT4
R1OUT3
R1OUT2
R1OUT1
R1OUT0
G2OUT9
B2OUT9
R2OUT9
CKPANEL
HDOUT
VDOUT
DEOUT
PARITY
33(J)
R3069
R3070
R3071
R3072
MOUNT
W3036
PWDN_MUTE
500:5D
NOT MOUNT
W3035
SUB_RESET2
303:1C;305:2D;305:4B;500:2B
R3064
R3065
R3066
R3067
R3068
LVDS TRANSMITTER
[U103]
IC311
/PDWN
RS
R/F
for SHARP
(SELLVDS HIGH)
TA0
TA1
TA2
TA3
TA4
TA5
TA6
TB0
TB6
TC0
TC6
TD0
TD6
TE0
TE6
CLKIN
[LVDSVCC]
[LVDSGND]
[PLLVCC]
[PLLGND]
[VCC]
[GND]
TA+
TA-
TB+
TB-
TC+
TC-
TD+
TD-
TE+
TE-
TCLK+
TCLK-
[FL09B] FL302
[FL09B] FL303
[FL09B] FL304
[FL09B] FL305
[FL09B] FL306
[FL09B] FL307
ACM2012-201-2P-T
RX0+1
RX0-1
RX1+1
RX1-1
RX2+1
RX2-1
RX3+1
RX3-1
RX4+1
RX4-1
RXCLK+1
RXCLK-1
309:1C
309:1B
309:1D
100MHz 220ohm L3004
100MHz 220ohm L3003
C3098
C3099 470pF(J)
C3100 470pF(J)
C3101 470pF(J)
C3102 10nF(K)
C3103
C3104
C3105 10nF(K) 50V
①
②
③
④

46HM84/52HM84/62HM84 SH. NO.
LVDS OUT 307

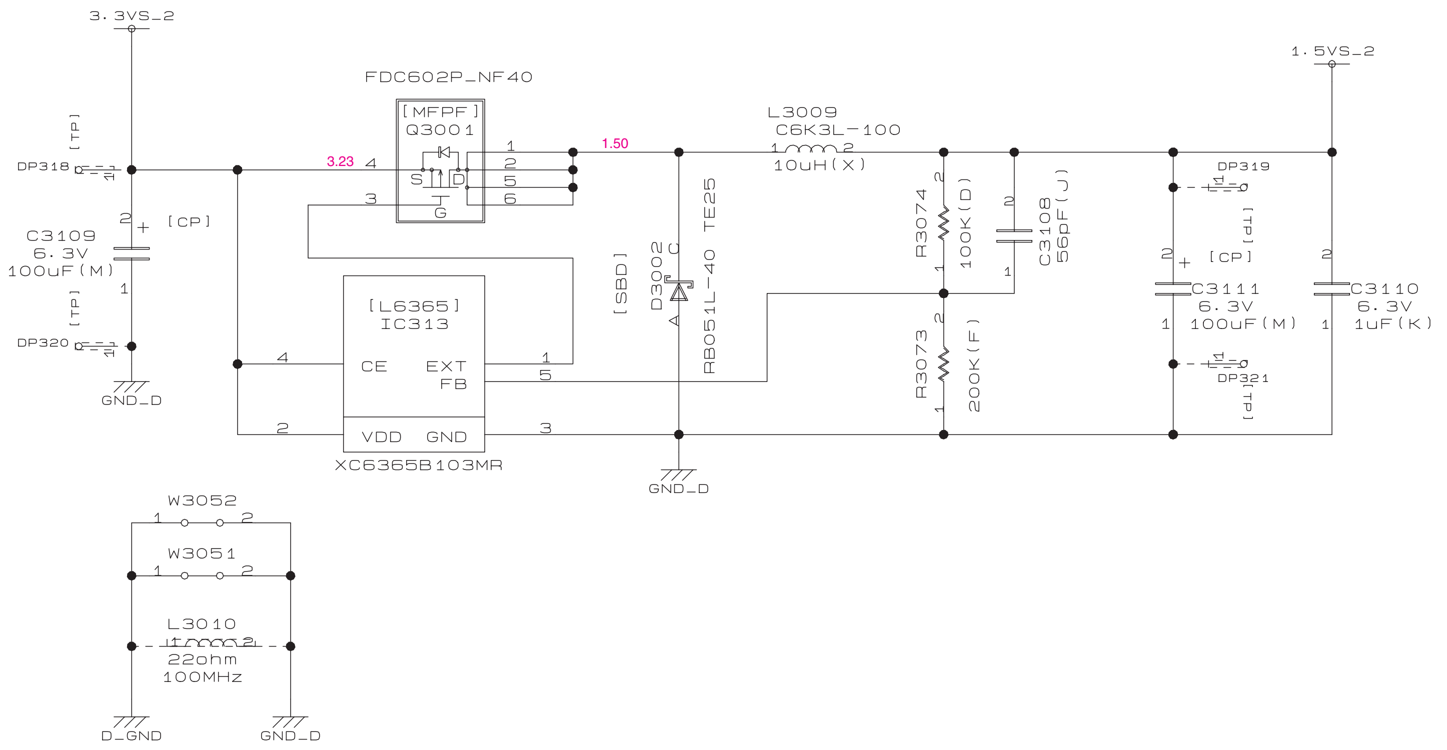

[DMF]
D3001
C
A
NC
1SS187(TE85L)
@NOTMOU
3.3VS_2
3.23
2.5V_DVCC
2.50
[LXXXY3H3Z]
IC312
1
5
3
VIN
VC
GND
VO
VOSENSE
2
4
PQ025Y3H3ZP
2
C3106
1
100nF(K)
25V
D_GND
D_GND
2
C3107
1
22uF(K)
10V
D_GND

46HM84/52HM84/62HM84
Power (3.3V_2 to 2.5V_DVCC)

SH. NO.
308

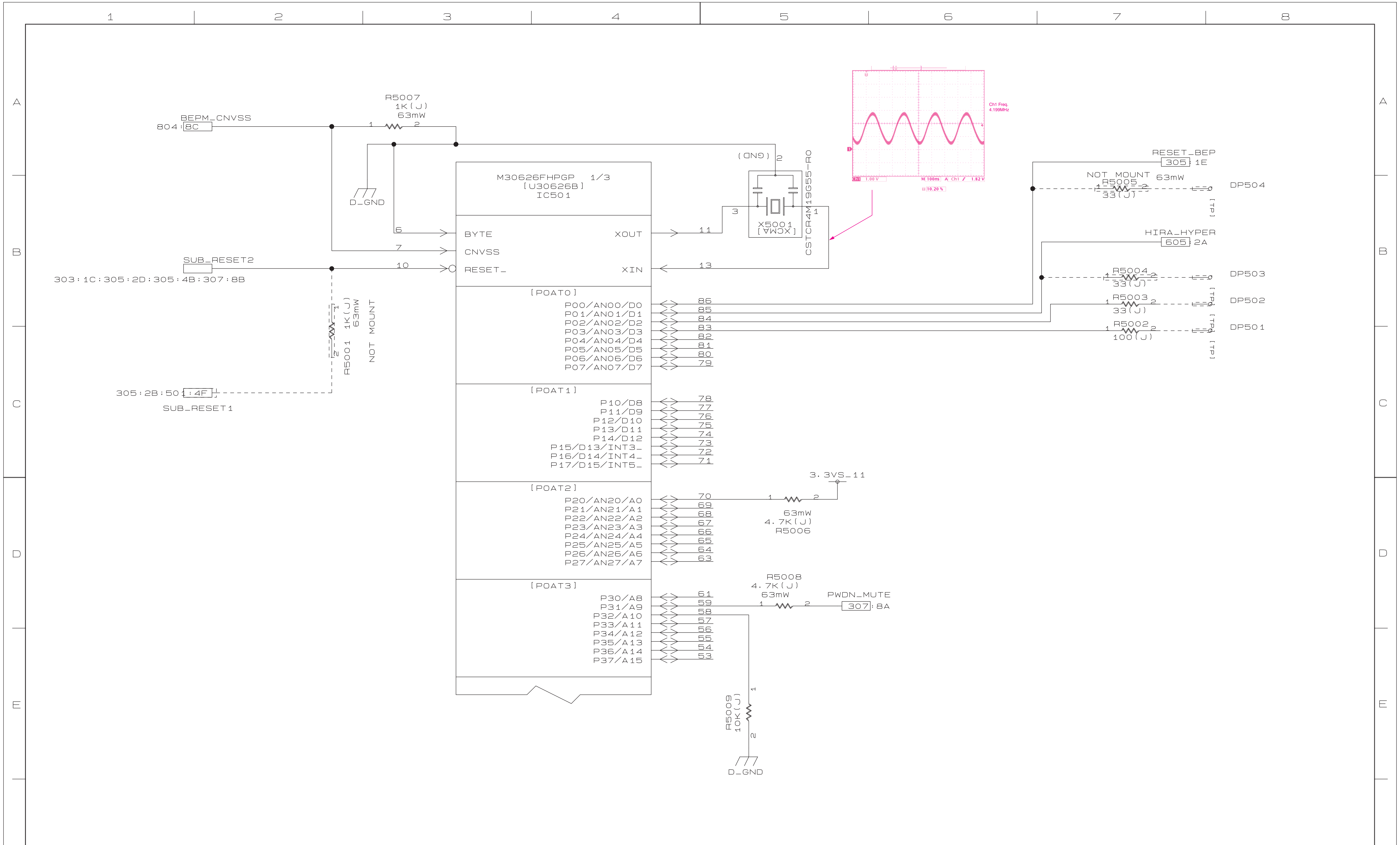

307 8C RX0-1
307 8C RX0+1
307 8C RX1-1
307 8C RX1+1
307 8D RX2-1
307 8D RX2+1
307 8E RXCLK-1
307 8E RXCLK+1
307 8D RX3-1
307 8D RX3+1
307 8E RX4-1
307 8E RX4+1
W3037
W3038
W3039
W3040
W3041
W3042
W3043
W3044
W3045
W3046
W3048
W3047
NOT MOUNT 100MHz 22ohm L3005
W3049
F_GND
[to DMD]
[CN32C] PJ15
L3008 22ohm 100MHz
D_GND
31 GND GND
1 N.C.
2 N.C.
3 N.C.
4 N.C.
5 GND
6 GND
7 GND
8 GND
9 N.C.
10 N.C.
11 GND
12 RIN0-1
13 RIN0+1
14 GND
15 RIN1-1
16 RIN1+1
17 GND
18 RIN2-1
19 RIN2+1
20 GND
21 CLKIN-1
22 CLKIN+1
23 GND
24 RIN3-1
25 RIN3+1
26 GND
27 RX4-1
28 RX4+1
29 GND
30 GND
32 GND GND
100MHz 22ohm L3007
D_GND
NOT MOUNT 100MHz 22ohm L3006
W3050
F_GND

46HM84/52HM84/62HM84
LVDS OUT CONNECTOR
SH. NO.
309


3.3VS_2
FDC602P_NF40
[MFPF]
Q3001
S
D
G
3.23
1.50
L3009
C6K3L-100
10uH(X)
1.5VS_2
DP318
[TP]
C3109
6.3V
100uF(M)
[CP]
DP320
GND_D
[L6365]
IC313
CE
EXT
FB
VDD
GND
XC6365B103MR
[SBD]
D3002
RB051L-40 TE25
R3074
100K(D)
C3108
56pF(J)
R3073
200K(F)
DP319
[TP]
[CP]
C3111
6.3V
100uF(M)
DP321
C3110
6.3V
1uF(K)
W3052
W3051
L3010
22ohm
100MHz
D_GND
GND_D

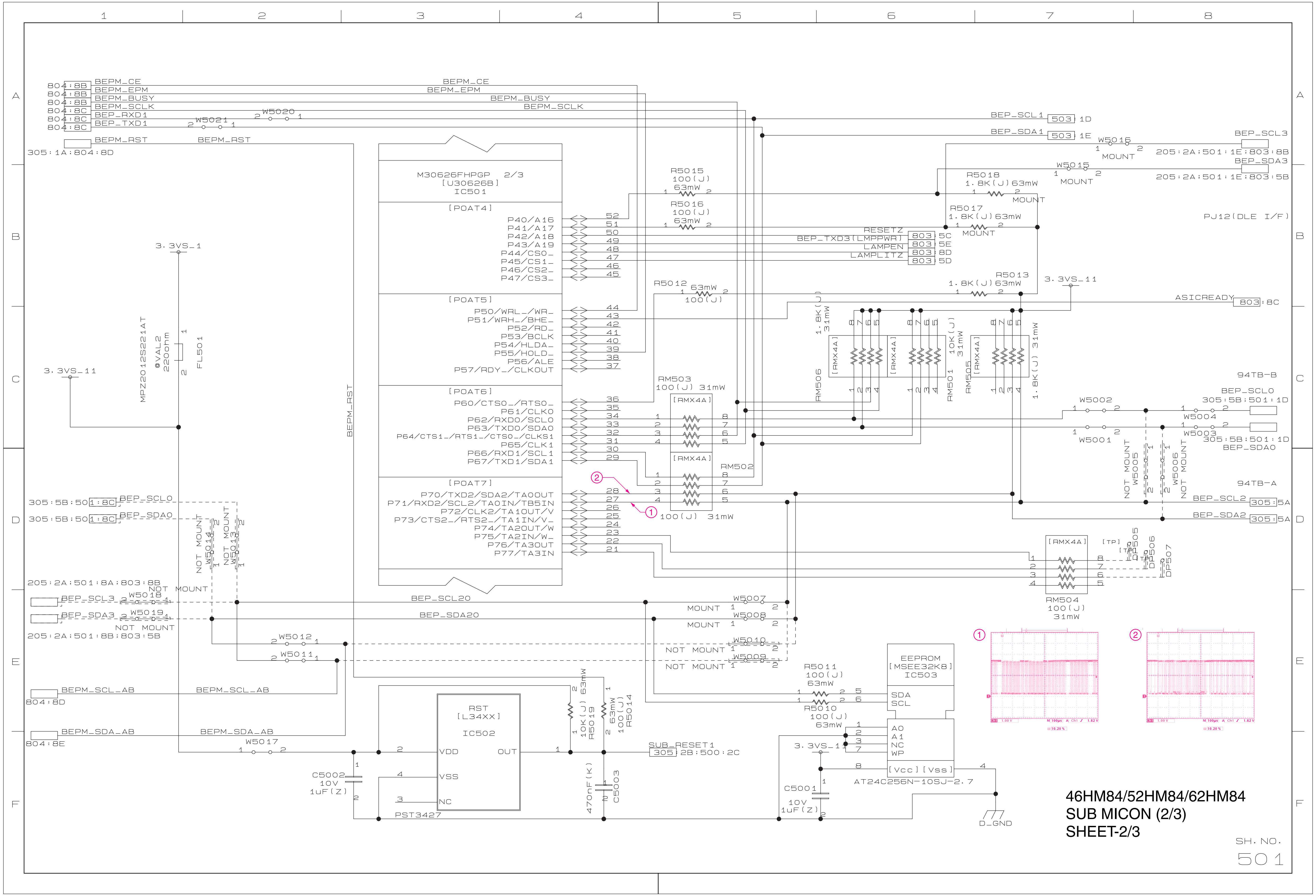
46HM84/52HM84/62HM84
DC/DC CONVERTER

SH. NO.
310


1
2
3
4
5
6
7
8
A
B
C
D
E
F
R5007
1K(J)
63mW
BEPM_CNVSS
804:8C
D_GND
SUB_RESET2
303:1C:305:2D:305:4B:307:8B
R5001
1K(J)
63mW
NOT MOUNT
305:2B:501:4F
SUB_RESET1
M30626FHPGP 1/3
[U30626B]
IC501
BYTE
CNVSS
RESET_
XOUT
XIN
6
7
10
11
13
(GND)
X5001
[XCMA]
CSTCR4M19G55-R0
Ch1 Freq.
4.199MHz
1.00 V
M 100ns A Ch1 ƒ 1.82 V
10.20 %
RESET_BEP
305:1E
NOT MOUNT 63mW
R5005
33(J)
DP504
HIRA_HYPER
605:2A
R5004
33(J)
DP503
R5003
33(J)
DP502
R5002
100(J)
DP501
[TP]
[POAT0]
P00/AN00/D0 86
P01/AN01/D1 85
P02/AN02/D2 84
P03/AN03/D3 83
P04/AN04/D4 82
P05/AN05/D5 81
P06/AN06/D6 80
P07/AN07/D7 79
[POAT1]
P10/D8 78
P11/D9 77
P12/D10 76
P13/D11 75
P14/D12 74
P15/D13/INT3_ 73
P16/D14/INT4_ 72
P17/D15/INT5_ 71
[POAT2]
P20/AN20/A0 70
P21/AN21/A1 69
P22/AN22/A2 68
P23/AN23/A3 67
P24/AN24/A4 66
P25/AN25/A5 65
P26/AN26/A6 64
P27/AN27/A7 63
3.3VS_11
63mW
4.7K(J)
R5006
[POAT3]
P30/A8 61
P31/A9 59
P32/A10 58
P33/A11 57
P34/A12 56
P35/A13 55
P36/A14 54
P37/A15 53
R5008
4.7K(J)
63mW
PWDN_MUTE
307:8A
R5009
10K(J)
D_GND

46HM84/52HM84/62HM84
SUB MICON (1/3)
SHEET-1/3

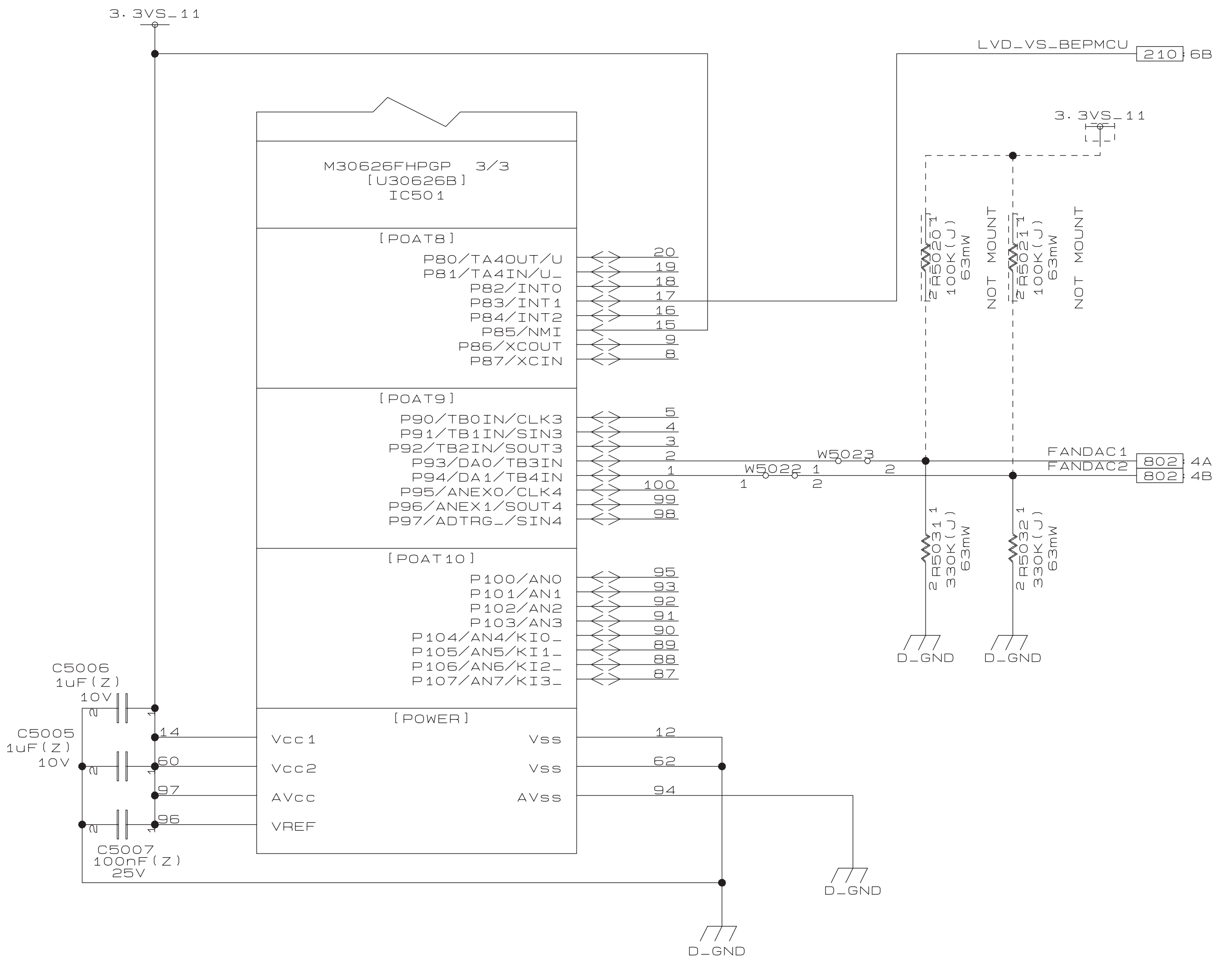
SH. NO.
500



1
2
3
4
5
6
7
8
A
B
C
D
E
F
804:8B BEPM_CE
804:8B BEPM_EPM
804:8B BEPM_BUSY
804:8C BEPM_SCLK
804:8C BEP_RXD1
804:8C BEP_TXD1
W5021
W5020
BEPM_RST
305:1A:804:8D
BEP_SCL1 503 1D
BEP_SDA1 503 1E
W5016 MOUNT
BEP_SCL3
205:2A:501:1E:803:8B
BEP_SDA3
W5015 MOUNT
205:2A:501:1E:803:5B
M30626FHPGP 2/3
[U30626B]
IC501
[POAT4]
P40/A16
P41/A17
P42/A18
P43/A19
P44/CS0_
P45/CS1_
P46/CS2_
P47/CS3_
[POAT5]
P50/WRL_/WR_
P51/WRH_/BHE_
P52/RD_
P53/BCLK
P54/HLDA_
P55/HOLD_
P56/ALE
P57/RDY_/CLKOUT
[POAT6]
P60/CTS0_/RTS0_
P61/CLK0
P62/RXD0/SCL0
P63/TXD0/SDA0
P64/CTS1_/RTS1_/CTS0_/CLKS1
P65/CLK1
P66/RXD1/SCL1
P67/TXD1/SDA1
[POAT7]
P70/TXD2/SDA2/TA0OUT
P71/RXD2/SCL2/TA0IN/TB5IN
P72/CLK2/TA1OUT/V
P73/CTS2_/RTS2_/TA1IN/V_
P74/TA2OUT/W
P75/TA2IN/W_
P76/TA3OUT
P77/TA3IN
R5015 100(J) 63mW
R5016 100(J) 63mW
R5018 1.8K(J) 63mW MOUNT
R5017 1.8K(J) 63mW MOUNT
RESETZ
BEP_TXD3(LMPPWR)
LAMPEN
LAMPLITZ
803 5C
803 5E
803 8D
803 5D
PJ12(DLE I/F)
R5012 63mW 100(J)
R5013 1.8K(J) 63mW
3.3VS_11
ASICREADY 803:8C
3.3VS_1
MPZ2012S221AT
@VAL2
220ohm
FL501
3.3VS_11
BEPM_RST
RM503 100(J) 31mW [RMX4A]
RM506 1.8K(J) 31mW [RMX4A]
RM501 10K(J) 31mW [RMX4A]
RM505 1.8K(J) 31mW [RMX4A]
RM502 [RMX4A] 100(J) 31mW
94TB-B
BEP_SCL0
305:5B:501:1D
W5002
W5004
W5001
W5003
305:5B:501:1D
BEP_SDA0
NOT MOUNT W5005
W5006 NOT MOUNT
94TB-A
BEP_SCL2 305 5A
BEP_SDA2 305 5A
305:5B:501:8C BEP_SCL0
305:5B:501:8C BEP_SDA0
NOT MOUNT W5014
NOT MOUNT W5013
①
②
[RMX4A]
RM504 100(J) 31mW
[TP] DP505
[TP] DP506
[TP] DP507
205:2A:501:8A:803:8B
NOT MOUNT
BEP_SCL3 W5018
BEP_SDA3 W5019
NOT MOUNT
205:2A:501:8B:803:5B
BEP_SCL20
BEP_SDA20
MOUNT W5007
MOUNT W5008
NOT MOUNT W5010
NOT MOUNT W5009
W5012
W5011
BEPM_SCL_AB
804:8D
BEPM_SDA_AB
804:8E
W5017
EEPROM [MSEE32K8] IC503
R5011 100(J) 63mW
R5010 100(J) 63mW
SDA
SCL
A0
A1
NC
WP
[Vcc] [Vss]
AT24C256N-10SJ-2.7
3.3VS_1
C5001 10V 1uF(Z)
D_GND
RST [L34XX] IC502
VDD
VSS
NC
OUT
PST3427
C5002 10V 1uF(Z)
10K(J) 63mW R5019
63mW 100(J) R5014
470nF(K) C5003
SUB_RESET1 305 2B:500:2C

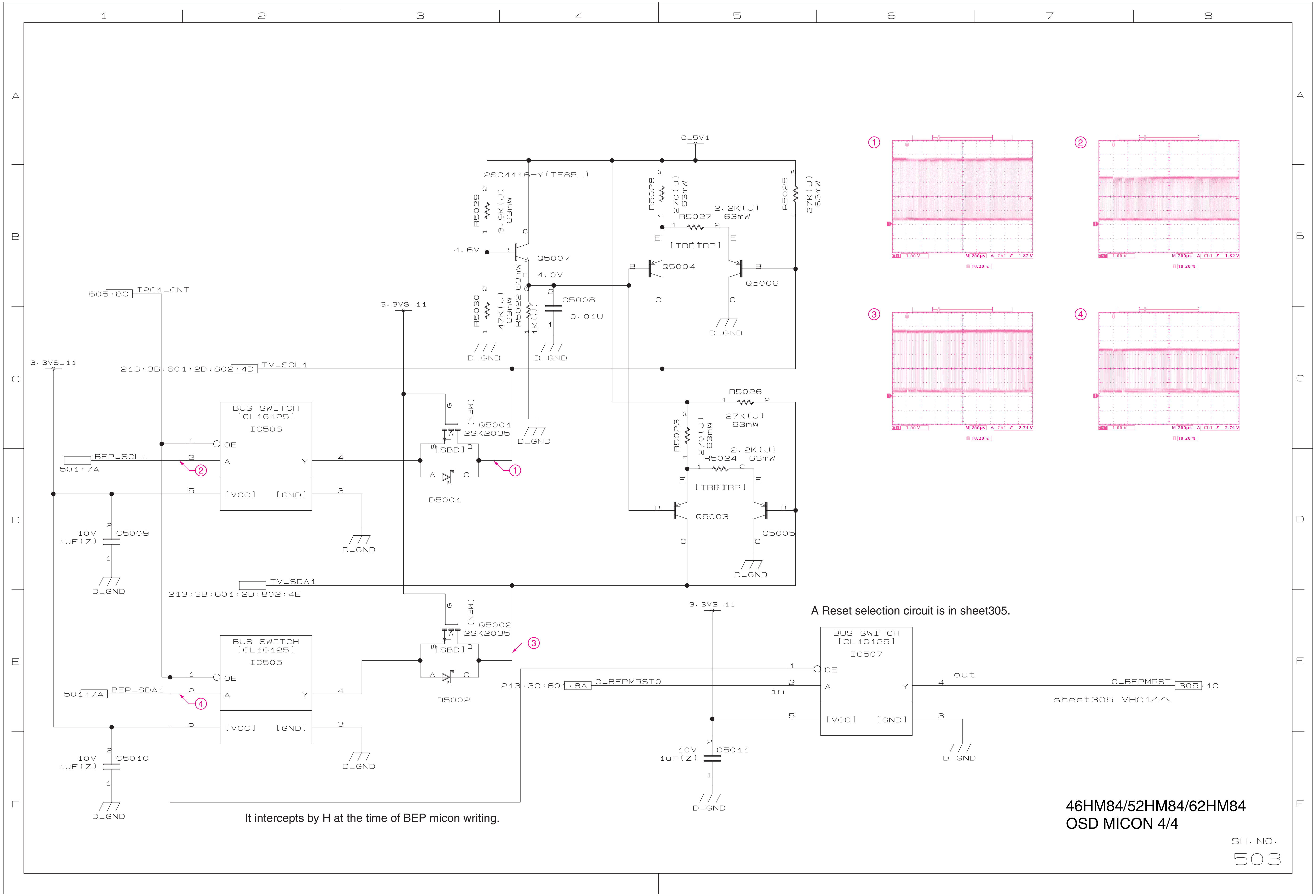
46HM84/52HM84/62HM84
SUB MICON (2/3)
SHEET-2/3

SH. NO.
501


3.3VS_11
M30626FHPGP 3/3
[U30626B]
IC501
[POAT8]
P80/TA4OUT/U 20
P81/TA4IN/U_ 19
P82/INT0 18
P83/INT1 17
P84/INT2 16
P85/NMI 15
P86/XCOUT 9
P87/XCIN 8
[POAT9]
P90/TB0IN/CLK3 5
P91/TB1IN/SIN3 4
P92/TB2IN/SOUT3 3
P93/DA0/TB3IN 2
P94/DA1/TB4IN 1
P95/ANEX0/CLK4 100
P96/ANEX1/SOUT4 99
P97/ADTRG_/SIN4 98
[POAT10]
P100/AN0 95
P101/AN1 93
P102/AN2 92
P103/AN3 91
P104/AN4/KI0_ 90
P105/AN5/KI1_ 89
P106/AN6/KI2_ 88
P107/AN7/KI3_ 87
[POWER]
Vcc1 14
Vcc2 60
AVcc 97
VREF 96
Vss 12
Vss 62
AVss 94
C5006 1uF(Z) 10V
C5005 1uF(Z) 10V
C5007 100nF(Z) 25V
D_GND
D_GND
LVD_VS_BEPMCU 210 6B
3.3VS_11
R5020 100K(J) 63mW NOT MOUNT
R5021 100K(J) 63mW NOT MOUNT
W5023
W5022
FANDAC1 802 4A
FANDAC2 802 4B
R5031 330K(J) 63mW
R5032 330K(J) 63mW
D_GND
D_GND

46HM84/52HM84/62HM84
SUB MICON (3/3)
SHEET-3/3

SH. NO.
502

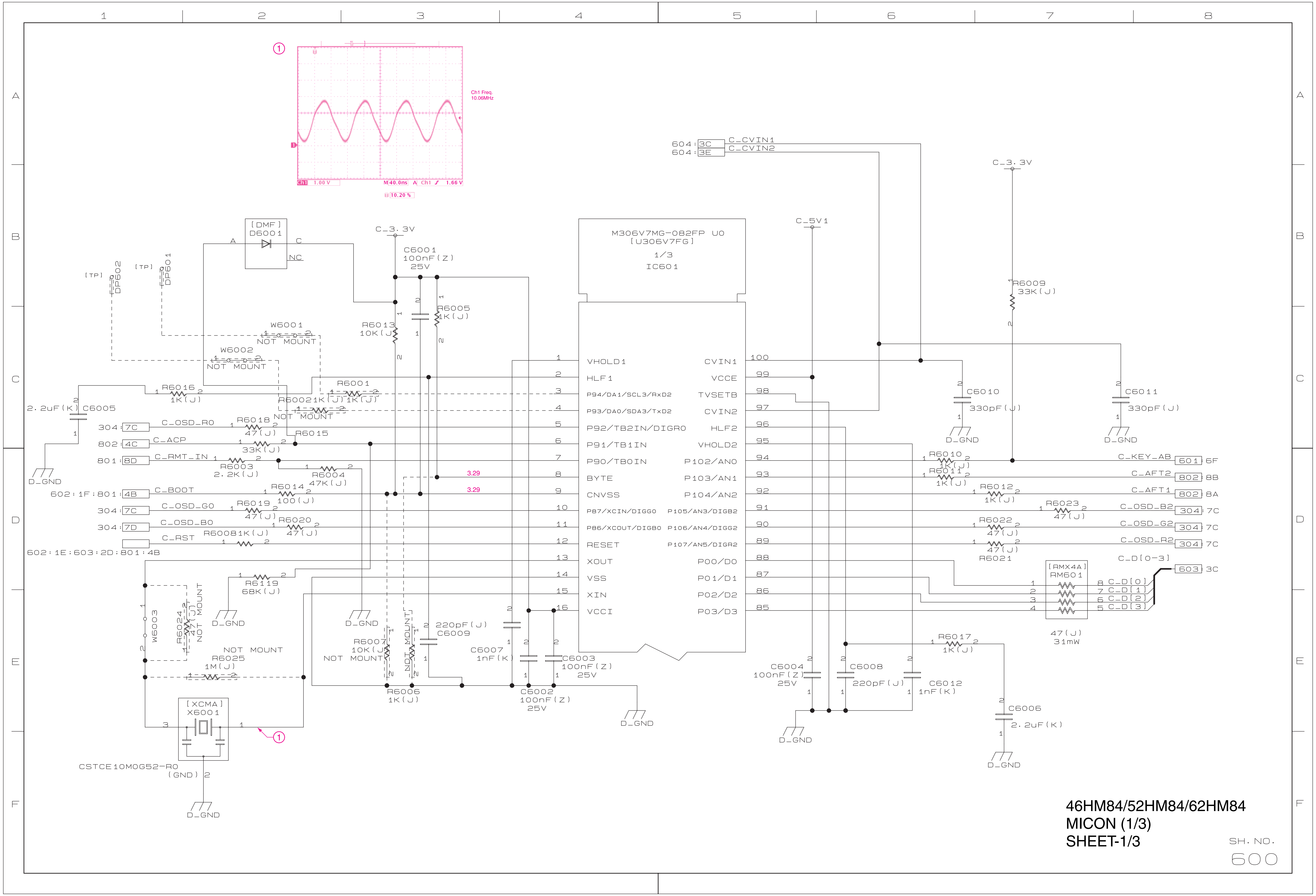

C_5V1
2SC4116-Y(TE85L)
R5029
3.9K(J)
63mW
4.6V
Q5007
4.0V
R5030
47K(J)
63mW
R5022
63mW
1K(J)
C5008
0.01U
D_GND
R5028
270(J)
63mW
2.2K(J)
R5027
63mW
[TRP]
[TRP]
Q5004
Q5006
R5025
27K(J)
63mW
605:8C
I2C1_CNT
3.3VS_11
213:3B:601:2D:802:4D
TV_SCL1
BUS SWITCH
[CL1G125]
IC506
OE
A
Y
[VCC]
[GND]
BEP_SCL1
501:7A
Q5001
2SK2035
[MFN]
[SBD]
D5001
R5026
27K(J)
63mW
R5023
270(J)
63mW
2.2K(J)
R5024
63mW
Q5003
Q5005
10V
1uF(Z)
C5009
TV_SDA1
213:3B:601:2D:802:4E
Q5002
2SK2035
D5002
BUS SWITCH
[CL1G125]
IC505
BEP_SDA1
501:7A
10V
1uF(Z)
C5010
213:3C:601:8A
C_BEPMRST0
in
out
BUS SWITCH
[CL1G125]
IC507
C_BEPMRST
305
1C
sheet305 VHC14へ
10V
1uF(Z)
C5011
①
②
③
④
1.00 V
M 200µs A Ch1 ∫ 1.82 V
10.20 %
M 200µs A Ch1 ∫ 2.74 V

A Reset selection circuit is in sheet305.

It intercepts by H at the time of BEP micon writing.

46HM84/52HM84/62HM84
OSD MICON 4/4

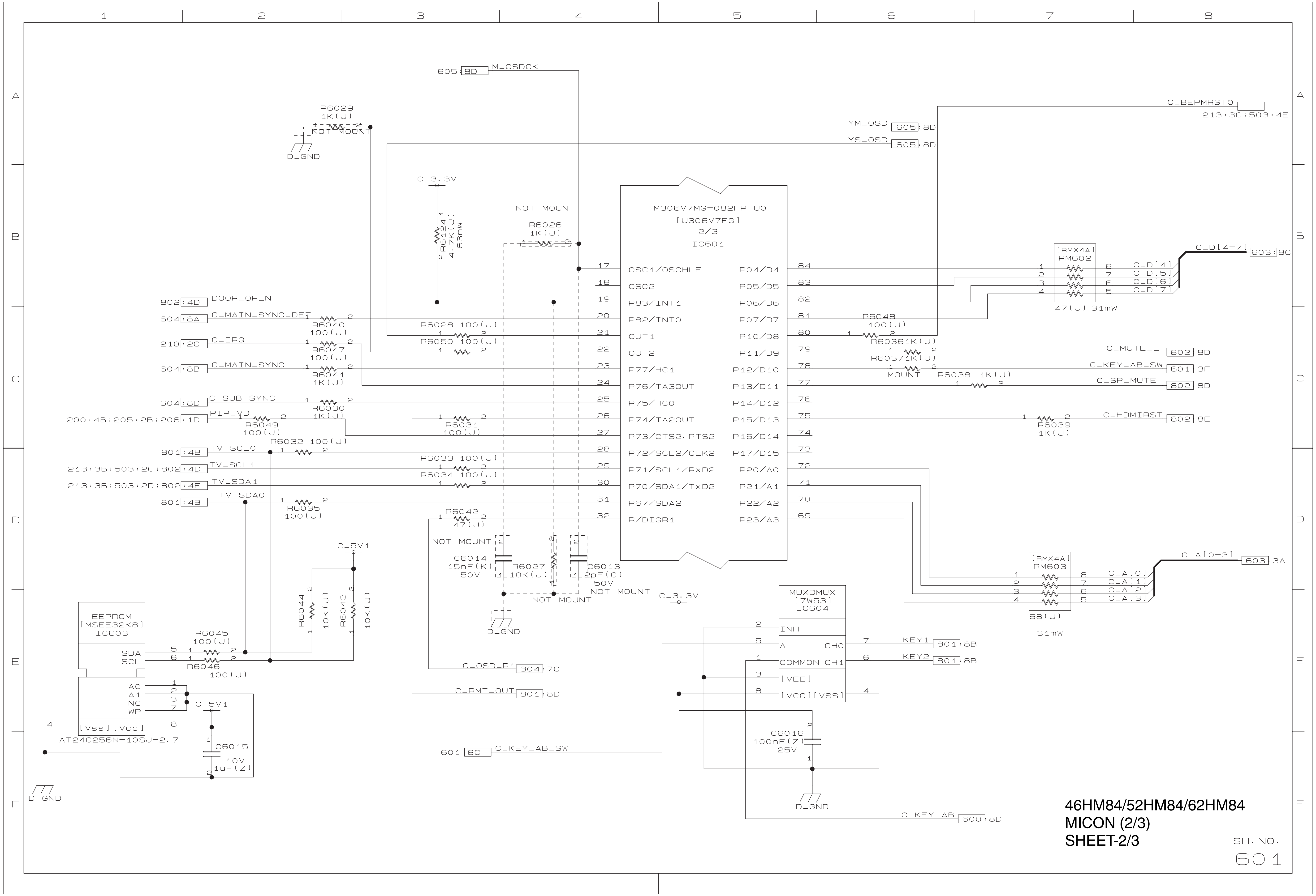
SH. NO.
503



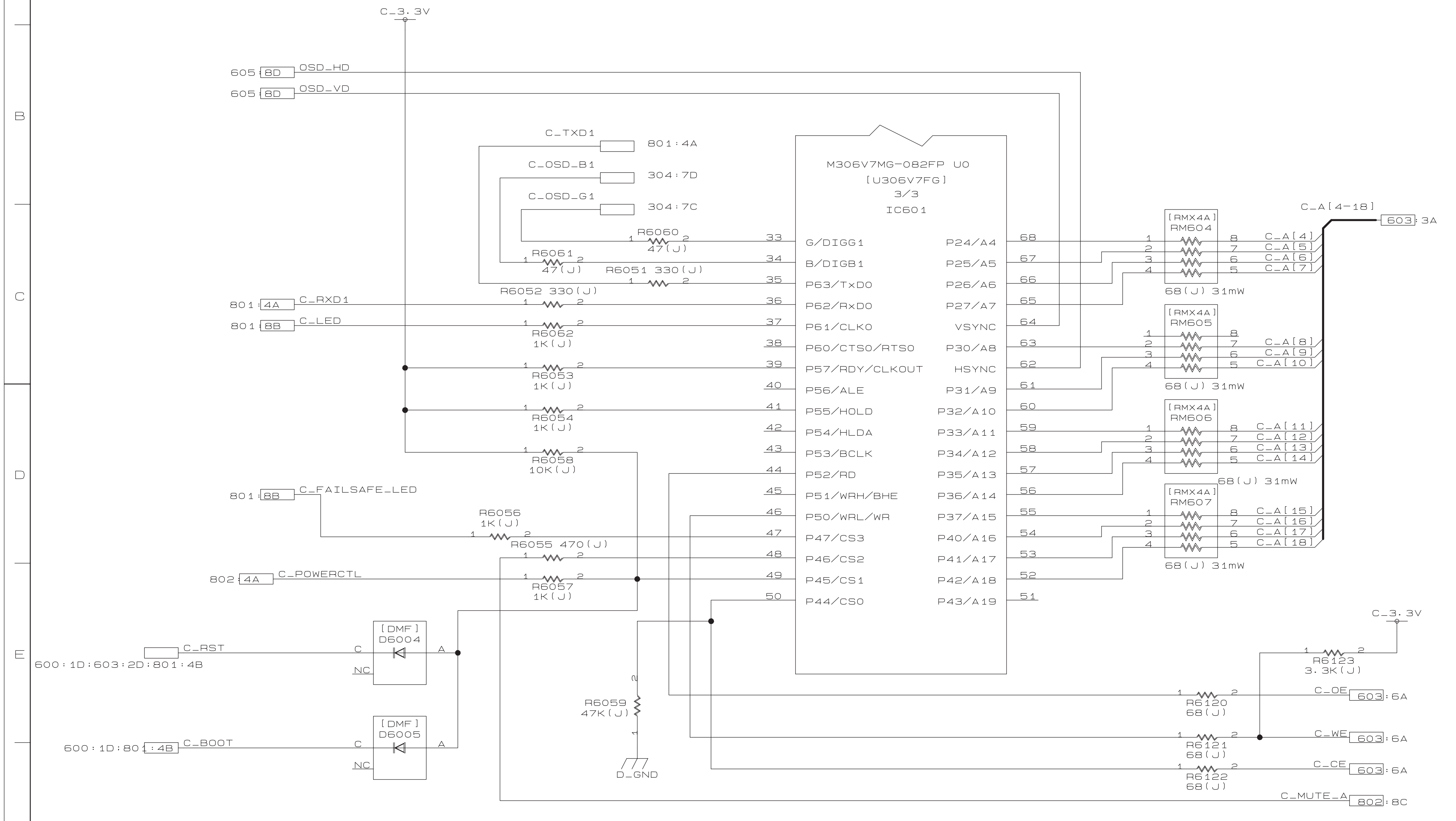
1
2
3
4
5
6
7
8
A
B
C
D
E
F
①
Ch1 Freq.
10.06MHz
Ch1 1.00 V
M 40.0ns A Ch1 ∫ 1.66 V
10.20 %
604 : 3C C_CVIN1
604 : 3E C_CVIN2
C_3. 3V
C_5V1
M306V7MG-082FP U0
[U306V7FG]
1/3
IC601
[DMF]
D6001
A
C
NC
C_3. 3V
C6001
100nF(Z)
25V
R6005
1K(J)
R6013
10K(J)
[TP]
DP602
[TP]
DP601
W6001
NOT MOUNT
W6002
NOT MOUNT
R6009
33K(J)
R6016
1K(J)
R6001
R6002 1K(J) 1K(J)
NOT MOUNT
2. 2uF(K) C6005
304 7C C_OSD_R0
R6018
47(J)
R6015
802 4C C_ACP
33K(J)
801 8D C_RMT_IN
R6003
2. 2K(J)
R6004
47K(J)
D_GND
602 : 1F : 801 4B C_BOOT
R6014
100(J)
304 7C C_OSD_G0
R6019
47(J)
304 7D C_OSD_B0
R6020
47(J)
C_RST
R6008 1K(J)
602 : 1E : 603 : 2D : 801 : 4B
3.29
3.29
VHOLD1
HLF1
P94/DA1/SCL3/RxD2
P93/DA0/SDA3/TxD2
P92/TB2IN/DIGR0
P91/TB1IN
P90/TB0IN
BYTE
CNVSS
P87/XCIN/DIGG0
P86/XCOUT/DIGB0
RESET
XOUT
VSS
XIN
VCC1
CVIN1
VCCE
TVSETB
CVIN2
HLF2
VHOLD2
P102/AN0
P103/AN1
P104/AN2
P105/AN3/DIGB2
P106/AN4/DIGG2
P107/AN5/DIGR2
P00/D0
P01/D1
P02/D2
P03/D3
100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
C6010
330pF(J)
C6011
330pF(J)
D_GND
D_GND
R6010
1K(J)
R6011
1K(J)
C_KEY_AB 601 6F
C_AFT2 802 8B
R6012
1K(J)
C_AFT1 802 8A
R6023
47(J)
C_OSD_B2 304 7C
R6022
47(J)
C_OSD_G2 304 7C
47(J)
R6021
C_OSD_R2 304 7C
C_D[0-3]
603 3C
[RMX4A]
RM601
C_D[0]
C_D[1]
C_D[2]
C_D[3]
47(J)
31mW
R6119
68K(J)
D_GND
D_GND
W6003
R6024
47(J)
NOT MOUNT
NOT MOUNT
R6025
1M(J)
R6007
10K(J)
NOT MOUNT
NOT MOUNT
220pF(J)
C6009
C6007
1nF(K)
C6003
100nF(Z)
25V
R6006
1K(J)
C6002
100nF(Z)
25V
D_GND
C6004
100nF(Z)
25V
C6008
220pF(J)
C6012
1nF(K)
D_GND
R6017
1K(J)
C6006
2. 2uF(K)
D_GND
[XCMA]
X6001
CSTCE10M0G52-R0
(GND)
D_GND
①

46HM84/52HM84/62HM84
MICON (1/3)
SHEET-1/3

SH. NO.
600

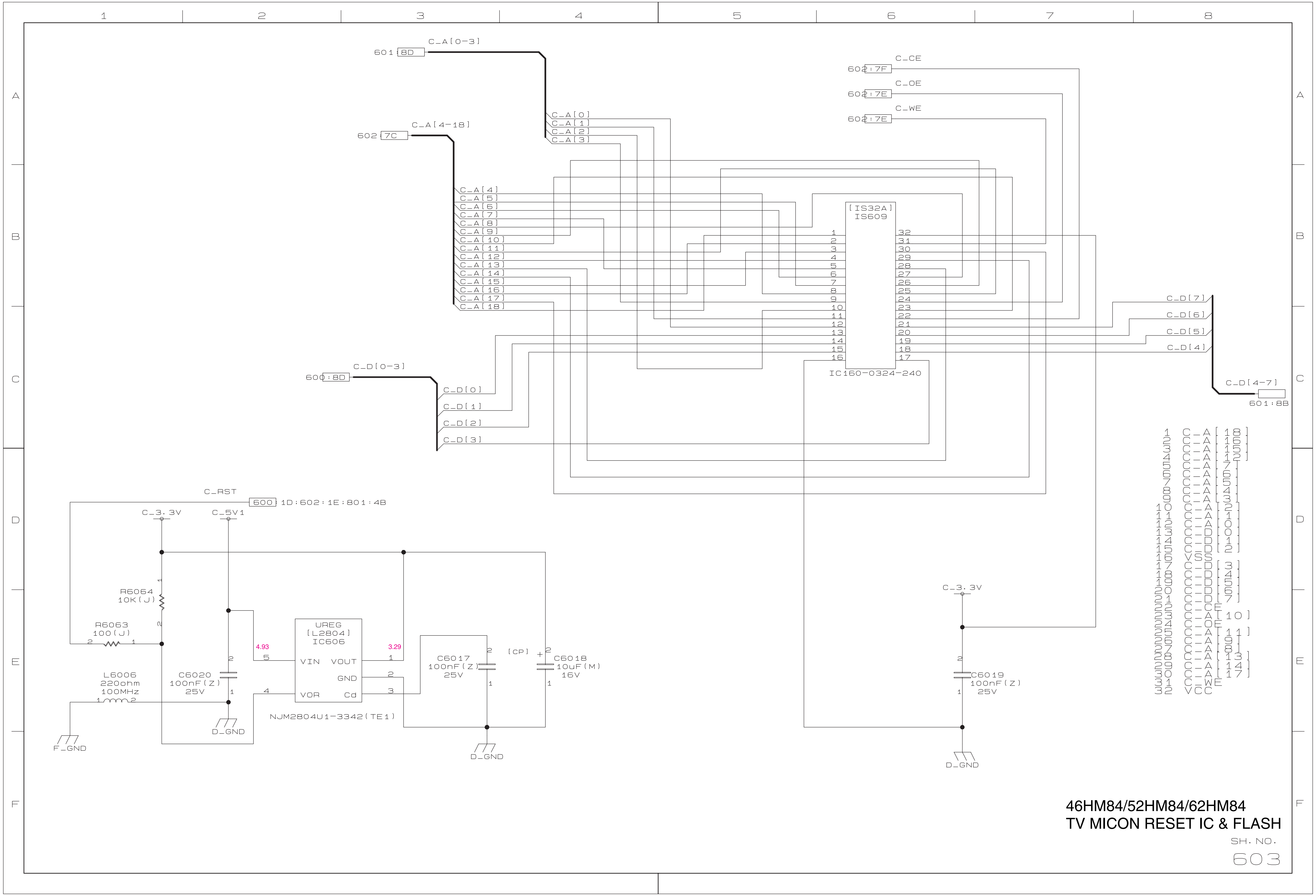

1
2
3
4
5
6
7
8
A
B
C
D
E
F
605:8D M_OSDCK
R6029
1K(J)
NOT MOUNT
D_GND
YM_OSD 605:8D
YS_OSD 605:8D
C_BEPMRSTO
213:3C:503:4E
C_3.3V
R6124
4.7K(J)
63mW
NOT MOUNT
R6026
1K(J)
M306V7MG-082FP U0
[U306V7FG]
2/3
IC601
17 OSC1/OSCHLF
18 OSC2
19 P83/INT1
20 P82/INT0
21 OUT1
22 OUT2
23 P77/HC1
24 P76/TA3OUT
25 P75/HC0
26 P74/TA2OUT
27 P73/CTS2.RTS2
28 P72/SCL2/CLK2
29 P71/SCL1/RxD2
30 P70/SDA1/TxD2
31 P67/SDA2
32 R/DIGR1
P04/D4 84
P05/D5 83
P06/D6 82
P07/D7 81
P10/D8 80
P11/D9 79
P12/D10 78
P13/D11 77
P14/D12 76
P15/D13 75
P16/D14 74
P17/D15 73
P20/A0 72
P21/A1 71
P22/A2 70
P23/A3 69
[RMX4A]
RM602
47(J) 31mW
C_D[4-7] 603:8C
C_D[4]
C_D[5]
C_D[6]
C_D[7]
802:4D DOOR_OPEN
604:8A C_MAIN_SYNC_DET
R6040 100(J)
R6028 100(J)
R6050 100(J)
210:2C G_IRQ
R6047 100(J)
604:8B C_MAIN_SYNC
R6041 1K(J)
604:8D C_SUB_SYNC
R6030 1K(J)
200:4B:205:2B:206:1D PIP_VD
R6049 100(J)
R6031 100(J)
R6032 100(J)
801:4B TV_SCL0
213:3B:503:2C:802:4D TV_SCL1
213:3B:503:2D:802:4E TV_SDA1
801:4B TV_SDA0
R6033 100(J)
R6034 100(J)
R6035 100(J)
R6042 47(J)
R6048 100(J)
R6036 1K(J)
R6037 1K(J)
MOUNT
R6038 1K(J)
C_MUTE_E 802:8D
C_KEY_AB_SW 601:3F
C_SP_MUTE 802:8D
C_HDMIRST 802:8E
R6039 1K(J)
NOT MOUNT
C6014 15nF(K) 50V
R6027 10K(J)
C6013 12pF(C) 50V
NOT MOUNT
NOT MOUNT
D_GND
C_5V1
R6044 10K(J)
R6043 10K(J)
[RMX4A]
RM603
68(J)
31mW
C_A[0-3] 603:3A
C_A[0]
C_A[1]
C_A[2]
C_A[3]
C_3.3V
MUXDMUX
[7W53]
IC604
INH
A
COMMON
[VEE]
[VCC] [VSS]
CH0
CH1
KEY1 801:8B
KEY2 801:8B
C6016 100nF(Z) 25V
D_GND
C_KEY_AB 600:8D
EEPROM
[MSEE32K8]
IC603
SDA
SCL
R6045 100(J)
R6046 100(J)
A0
A1
NC
WP
[Vss] [Vcc]
AT24C256N-10SJ-2.7
C_5V1
C6015 10V 1uF(Z)
D_GND
C_OSD_R1 304:7C
C_RMT_OUT 801:8D
601:8C C_KEY_AB_SW
SH. NO.
601

46HM84/52HM84/62HM84
MICON (2/3)
SHEET-2/3

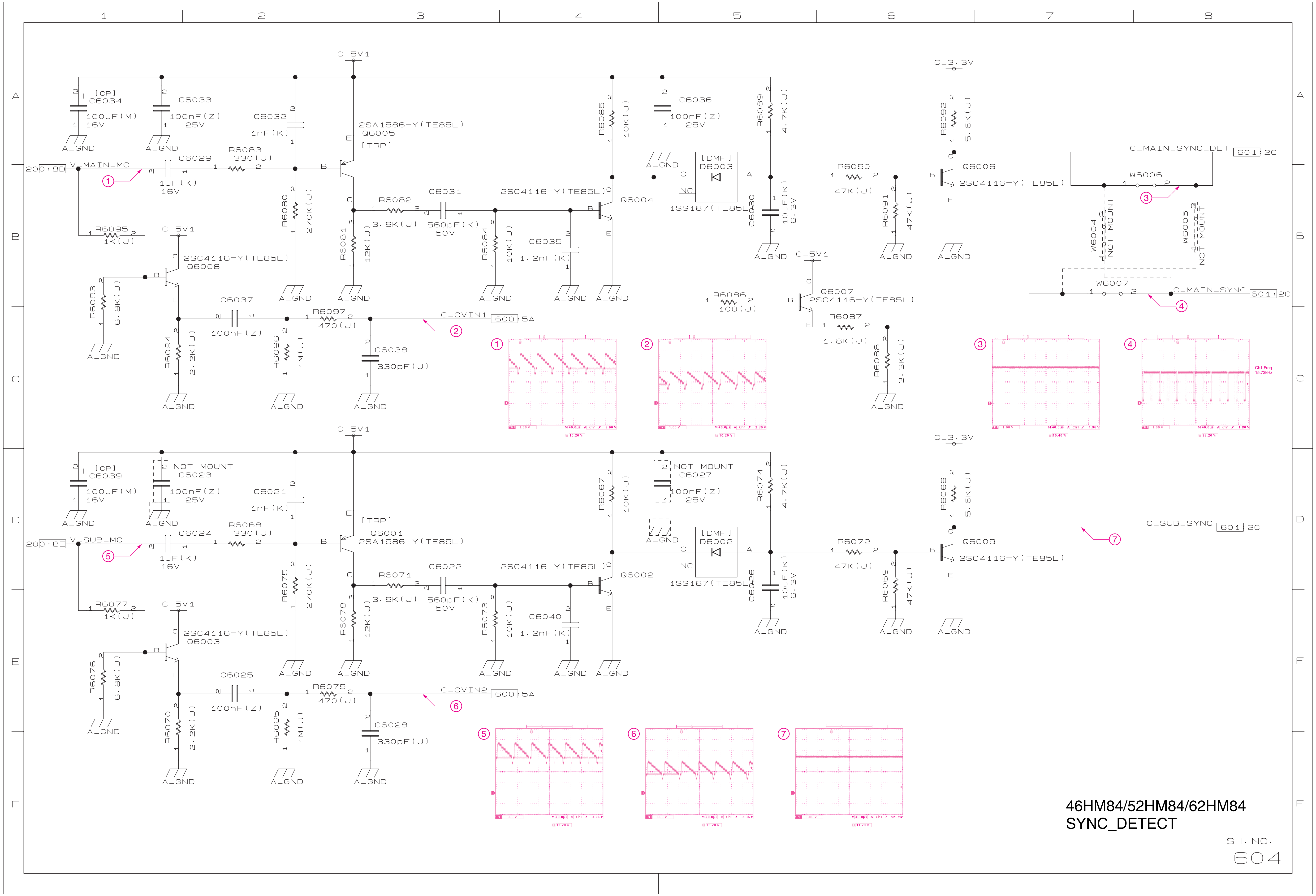

C_3.3V
605 8D OSD_HD
605 8D OSD_VD
C_TXD1 801:4A
C_OSD_B1 304:7D
C_OSD_G1 304:7C
M306V7MG-082FP U0
[U306V7FG]
3/3
IC601
R6060 47(J)
R6061 47(J)
R6051 330(J)
R6052 330(J)
801 4A C_RXD1
801 8B C_LED
R6062 1K(J)
R6053 1K(J)
R6054 1K(J)
R6058 10K(J)
801 8B C_FAILSAFE_LED
R6056 1K(J)
R6055 470(J)
802 4A C_POWERCTL
R6057 1K(J)
33 G/DIGG1
34 B/DIGB1
35 P63/TxD0
36 P62/RxD0
37 P61/CLK0
38 P60/CTS0/RTS0
39 P57/RDY/CLKOUT
40 P56/ALE
41 P55/HOLD
42 P54/HLDA
43 P53/BCLK
44 P52/RD
45 P51/WRH/BHE
46 P50/WRL/WR
47 P47/CS3
48 P46/CS2
49 P45/CS1
50 P44/CS0
P24/A4 68
P25/A5 67
P26/A6 66
P27/A7 65
VSYNC 64
P30/A8 63
HSYNC 62
P31/A9 61
P32/A10 60
P33/A11 59
P34/A12 58
P35/A13 57
P36/A14 56
P37/A15 55
P40/A16 54
P41/A17 53
P42/A18 52
P43/A19 51
[RMX4A] RM604 68(J) 31mW
[RMX4A] RM605 68(J) 31mW
[RMX4A] RM606 68(J) 31mW
[RMX4A] RM607 68(J) 31mW
C_A[4-18] 603:3A
C_A[4]
C_A[5]
C_A[6]
C_A[7]
C_A[8]
C_A[9]
C_A[10]
C_A[11]
C_A[12]
C_A[13]
C_A[14]
C_A[15]
C_A[16]
C_A[17]
C_A[18]
[DMF] D6004
C_RST
600:1D:603:2D:801:4B
[DMF] D6005
600:1D:801:4B C_BOOT
C A NC
R6059 47K(J)
D_GND
C_3.3V
R6123 3.3K(J)
R6120 68(J) C_OE 603:6A
R6121 68(J) C_WE 603:6A
R6122 68(J) C_CE 603:6A
C_MUTE_A 802:8C

46HM84/52HM84/62HM84
MICON (3/3)
SHEET-3/3

SH. NO.
602

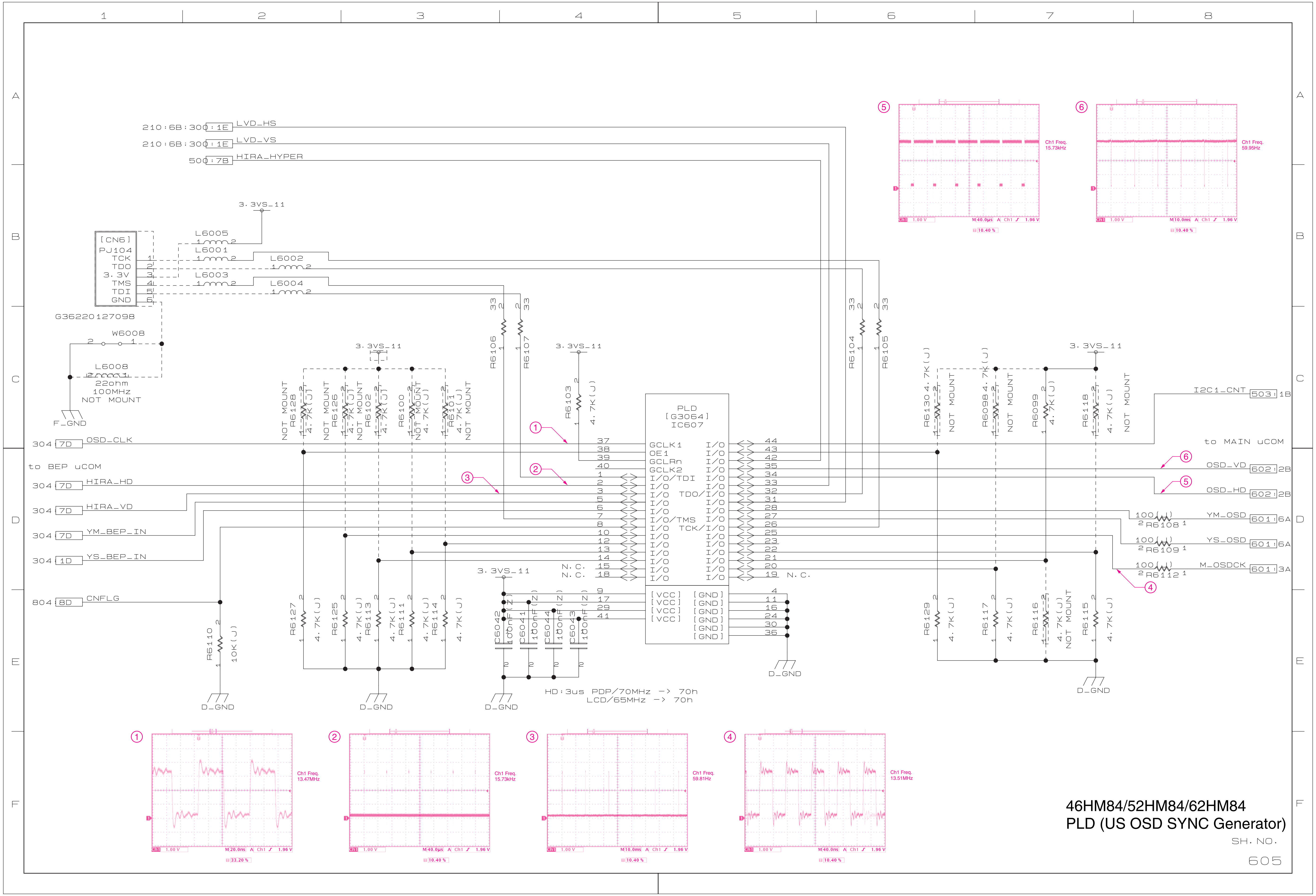

1
2
3
4
5
6
7
8
A
B
C
D
E
F
C_A[0-3]
601:8D
C_A[0]
C_A[1]
C_A[2]
C_A[3]
C_A[4-18]
602:7C
C_A[4]
C_A[5]
C_A[6]
C_A[7]
C_A[8]
C_A[9]
C_A[10]
C_A[11]
C_A[12]
C_A[13]
C_A[14]
C_A[15]
C_A[16]
C_A[17]
C_A[18]
C_CE
602:7F
C_OE
602:7E
C_WE
602:7E
[IS32A]
IS609
IC160-0324-240
C_D[7]
C_D[6]
C_D[5]
C_D[4]
C_D[4-7]
601:8B
C_D[0-3]
600:8D
C_D[0]
C_D[1]
C_D[2]
C_D[3]
1 C_A[18]
2 C_A[16]
3 C_A[15]
4 C_A[12]
5 C_A[7]
6 C_A[6]
7 C_A[5]
8 C_A[4]
9 C_A[3]
10 C_A[2]
11 C_A[1]
12 C_A[0]
13 C_D[0]
14 C_D[1]
15 C_D[2]
16 VSS
17 C_D[3]
18 C_D[4]
19 C_D[5]
20 C_D[6]
21 C_D[7]
22 C_CE
23 C_A[10]
24 C_OE
25 C_A[11]
26 C_A[9]
27 C_A[8]
28 C_A[13]
29 C_A[14]
30 C_A[17]
31 C_WE
32 VCC
C_RST
600 1D:602:1E:801:4B
C_3.3V
C_5V1
R6064
10K(J)
R6063
100(J)
L6006
220ohm
100MHz
F_GND
C6020
100nF(Z)
25V
D_GND
4.93
3.29
UREG
[L2804]
IC606
VIN
VOUT
GND
VOR
Cd
NJM2804U1-3342(TE1)
C6017
100nF(Z)
25V
[CP]
C6018
10uF(M)
16V
D_GND
C_3.3V
C6019
100nF(Z)
25V
D_GND

46HM84/52HM84/62HM84
TV MICON RESET IC & FLASH
SH. NO.
603

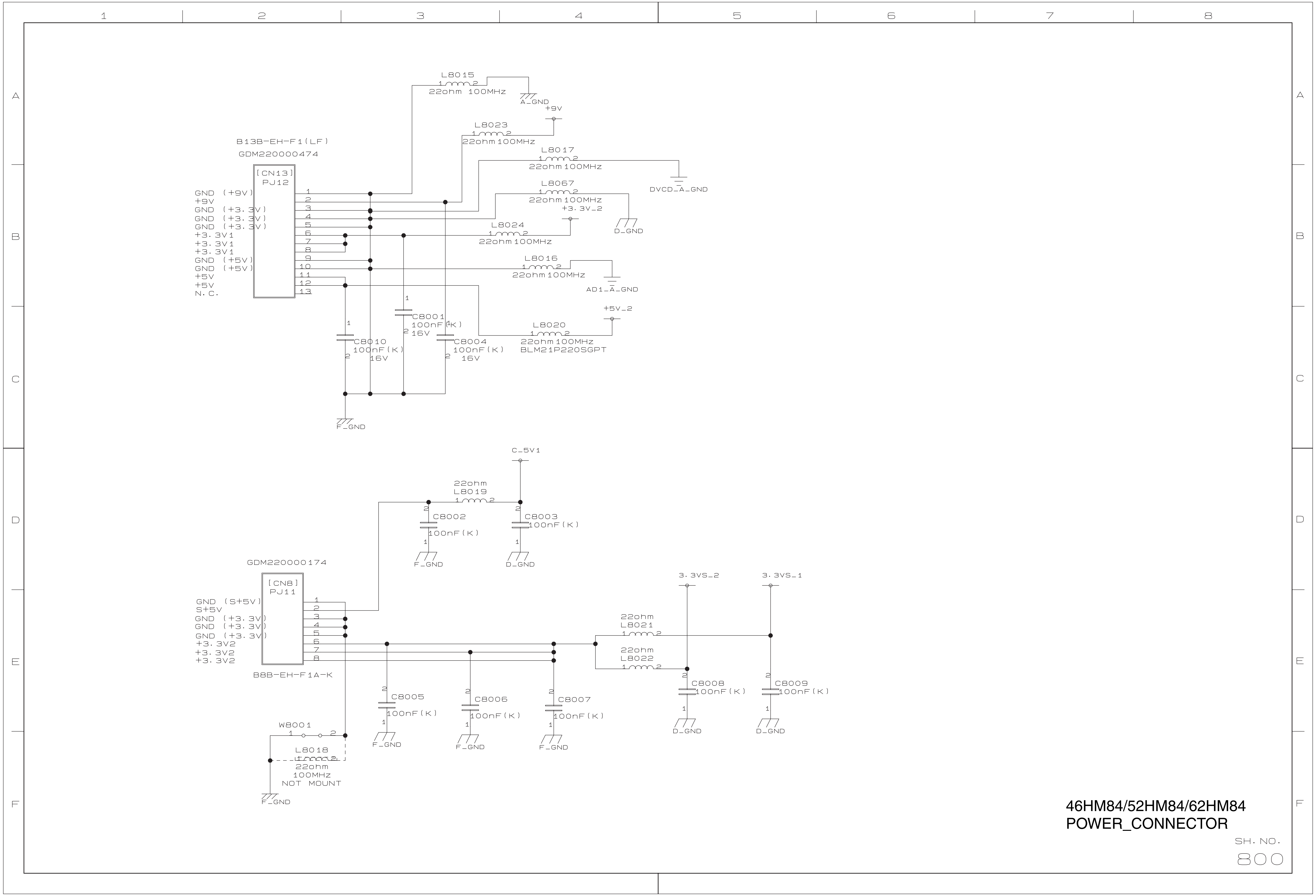

1 2 3 4 5 6 7 8
A B C D E F
C_5V1
C_3.3V
[CP] C6034 100uF(M) 16V
C6033 100nF(Z) 25V
C6032 1nF(K)
2SA1586-Y(TE85L) Q6005 [TRP]
R6085 10K(J)
C6036 100nF(Z) 25V
R6089 4.7K(J)
R6092 5.6K(J)
C_MAIN_SYNC_DET 601 2C
20 8D
V_MAIN_MC
C6029 1uF(K) 16V
R6083 330(J)
[DMF] D6003 1SS187(TE85L)
NC
R6090 47K(J)
Q6006 2SC4116-Y(TE85L)
W6006
R6080 270K(J)
R6082 3.9K(J)
C6031 560pF(K) 50V
2SC4116-Y(TE85L) Q6004
C6030 10uF(K) 6.3V
R6091 47K(J)
W6004 NOT MOUNT
W6005 NOT MOUNT
R6095 1K(J)
2SC4116-Y(TE85L) Q6008
R6081 12K(J)
R6084 10K(J)
C6035 1.2nF(K)
Q6007 2SC4116-Y(TE85L)
W6007
C_MAIN_SYNC 601 2C
R6086 100(J)
R6093 6.8K(J)
C6037 100nF(Z)
R6097 470(J)
C_CVIN1 600 5A
R6087 1.8K(J)
R6094 2.2K(J)
R6096 1M(J)
C6038 330pF(J)
R6088 3.3K(J)
A_GND
① ② ③ ④
Ch1 Freq 15.73kHz
[CP] C6039 100uF(M) 16V
NOT MOUNT C6023 100nF(Z) 25V
C6021 1nF(K)
[TRP] Q6001 2SA1586-Y(TE85L)
R6067 10K(J)
NOT MOUNT C6027 100nF(Z) 25V
R6074 4.7K(J)
R6066 5.6K(J)
C_SUB_SYNC 601 2C
20 8E
V_SUB_MC
C6024 1uF(K) 16V
R6068 330(J)
[DMF] D6002 1SS187(TE85L)
R6072 47K(J)
Q6009 2SC4116-Y(TE85L)
R6075 270K(J)
R6071 3.9K(J)
C6022 560pF(K) 50V
2SC4116-Y(TE85L) Q6002
C6026 10uF(K) 6.3V
R6069 47K(J)
R6077 1K(J)
2SC4116-Y(TE85L) Q6003
R6078 12K(J)
R6073 10K(J)
C6040 1.2nF(K)
R6076 6.8K(J)
C6025 100nF(Z)
R6079 470(J)
C_CVIN2 600 5A
R6070 2.2K(J)
R6065 1M(J)
C6028 330pF(J)
⑤ ⑥ ⑦

46HM84/52HM84/62HM84
SYNC_DETECT

SH. NO.
604

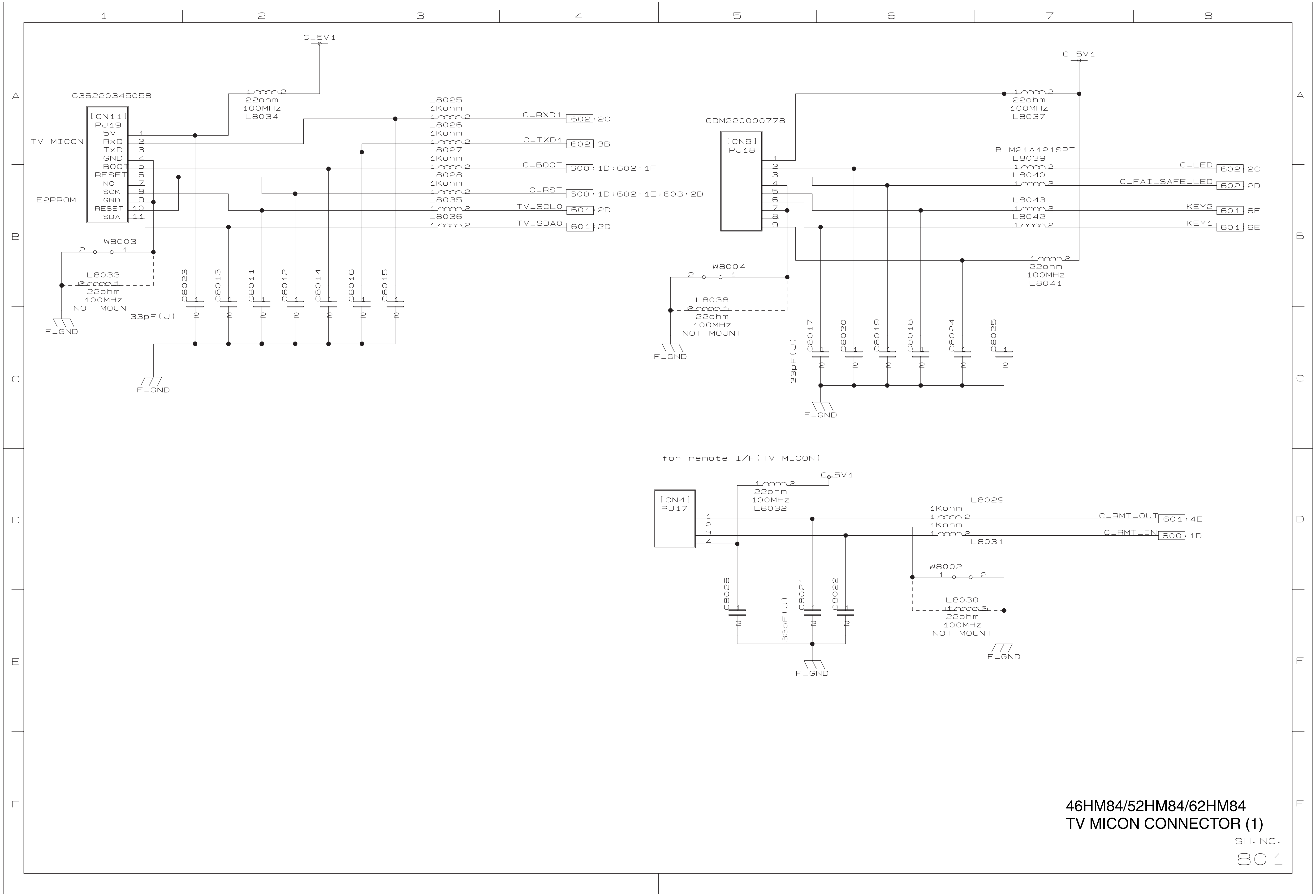

210:6B:300:1E LVD_HS
210:6B:300:1E LVD_VS
500:7B HIRA_HYPER
3.3VS_11
[CN6]
PJ104
TCK 1
TDO 2
3.3V 3
TMS 4
TDI 5
GND 6
G36220127098
L6005
L6001
L6002
L6003
L6004
W6008
L6008
22ohm
100MHz
NOT MOUNT
F_GND
R6106 33
R6107 33
R6104 33
R6105 33
R6128 4.7K(J) NOT MOUNT
R6126 4.7K(J) NOT MOUNT
R6102 4.7K(J) NOT MOUNT
R6100 4.7K(J) NOT MOUNT
R6101 4.7K(J) NOT MOUNT
R6103 4.7K(J)
R6130 4.7K(J) NOT MOUNT
R6098 4.7K(J) NOT MOUNT
R6099 4.7K(J)
R6118 4.7K(J) NOT MOUNT
I2C1_CNT 503:1B
to MAIN uCOM
304:7D OSD_CLK
to BEP uCOM
304:7D HIRA_HD
304:7D HIRA_VD
304:7D YM_BEP_IN
304:1D YS_BEP_IN
804:8D CNFLG
PLD
[G3064]
IC607
GCLK1 37
OE1 38
GCLRn 39
GCLK2 40
I/O/TDI
TDO/I/O
I/O/TMS
TCK/I/O
N.C.
N.C. 19
[VCC] 9 17 29 41
[GND] 4 11 16 24 30 36
OSD_VD 602:2B
OSD_HD 602:2B
100(J) R6108 YM_OSD 601:6A
100(J) R6109 YS_OSD 601:6A
100(J) R6112 M_OSDCK 601:3A
R6110 10K(J)
R6127 4.7K(J)
R6125 4.7K(J)
R6113 4.7K(J)
R6111 4.7K(J)
R6114 4.7K(J)
C6042 100nF(Z)
C6041 100nF(Z)
C6044 100nF(Z)
C6043 100nF(Z)
R6129 4.7K(J)
R6117 4.7K(J)
R6116 4.7K(J) NOT MOUNT
R6115 4.7K(J)
D_GND
HD:3us PDP/70MHz -> 70h
LCD/65MHz -> 70h
①
②
③
④
⑤
⑥
Ch1 Freq. 13.47MHz
Ch1 Freq. 15.73kHz
Ch1 Freq. 59.81Hz
Ch1 Freq. 13.51MHz
Ch1 Freq. 15.73kHz
Ch1 Freq. 59.95Hz

46HM84/52HM84/62HM84
PLD (US OSD SYNC Generator)
SH. NO.
605


1
2
3
4
5
6
7
8
A
B
C
D
E
F
L8015
22ohm 100MHz
A_GND
+9V
L8023
22ohm 100MHz
B13B-EH-F1(LF)
GDM220000474
[CN13]
PJ12
GND (+9V)
+9V
GND (+3.3V)
GND (+3.3V)
GND (+3.3V)
+3.3V1
+3.3V1
+3.3V1
GND (+5V)
GND (+5V)
+5V
+5V
N.C.
L8017
22ohm 100MHz
DVCD_A_GND
L8067
22ohm 100MHz
+3.3V_2
D_GND
L8024
22ohm 100MHz
L8016
22ohm 100MHz
AD1_A_GND
+5V_2
C8001
100nF(K)
16V
C8010
100nF(K)
16V
C8004
100nF(K)
16V
L8020
22ohm 100MHz
BLM21P220SGPT
F_GND
C_5V1
22ohm
L8019
C8002
100nF(K)
F_GND
C8003
100nF(K)
D_GND
GDM220000174
[CN8]
PJ11
GND (S+5V)
S+5V
GND (+3.3V)
GND (+3.3V)
GND (+3.3V)
+3.3V2
+3.3V2
+3.3V2
B8B-EH-F1A-K
3.3VS_2
3.3VS_1
22ohm
L8021
22ohm
L8022
C8008
100nF(K)
C8009
100nF(K)
D_GND
D_GND
C8005
100nF(K)
F_GND
C8006
100nF(K)
F_GND
C8007
100nF(K)
F_GND
W8001
L8018
22ohm
100MHz
NOT MOUNT
F_GND

46HM84/52HM84/62HM84
POWER_CONNECTOR

SH. NO.
800

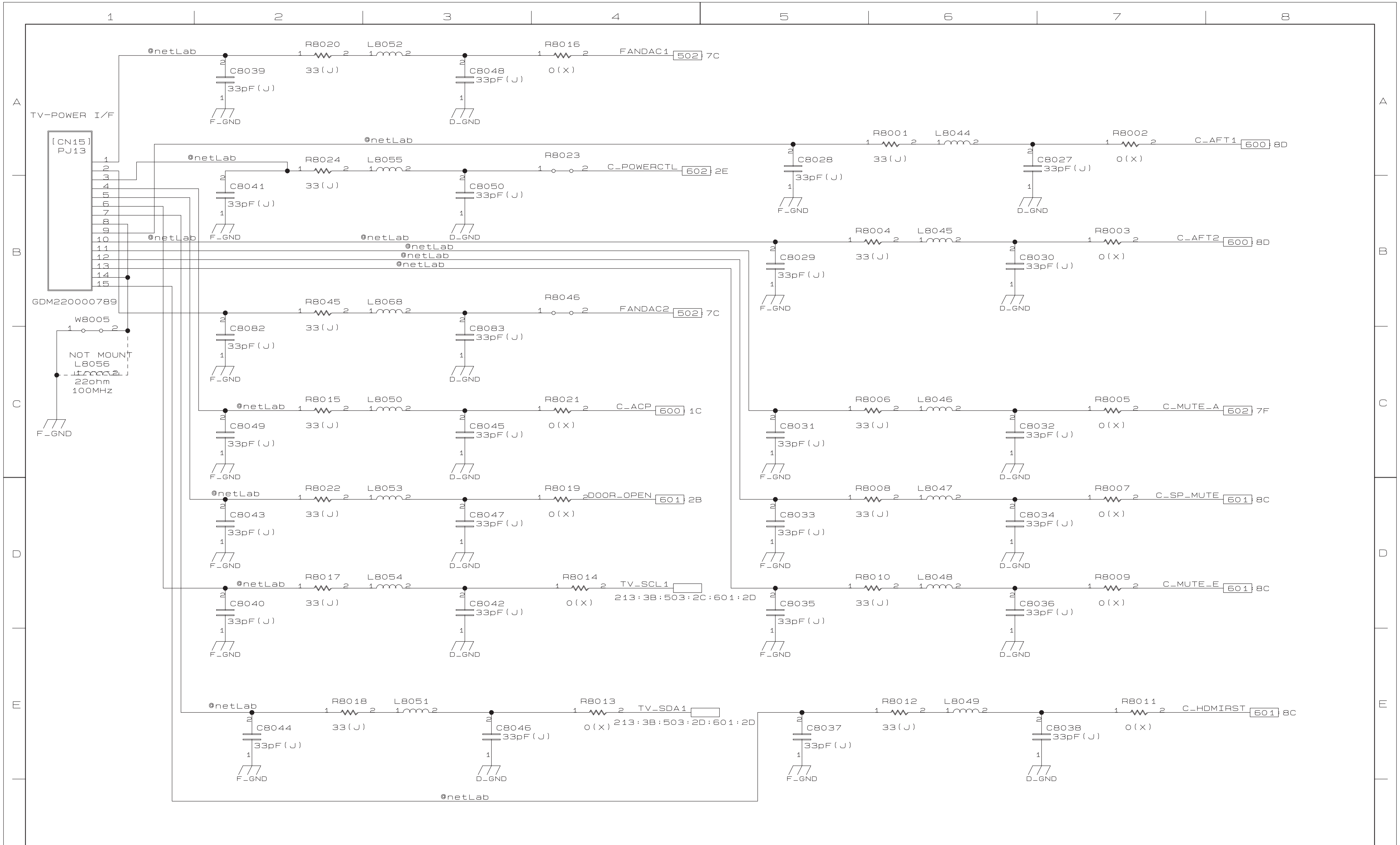

1
2
3
4
5
6
7
8
A
B
C
D
E
F
C_5V1
G36220345058
[CN11]
PJ19
TV MICON
5V
RxD
TxD
GND
BOOT
RESET
NC
SCK
GND
RESET
SDA
E2PROM
22ohm
100MHz
L8034
L8025
1Kohm
L8026
1Kohm
L8027
1Kohm
L8028
1Kohm
L8035
L8036
C_RXD1
602 2C
C_TXD1
602 3B
C_BOOT
600 1D:602:1F
C_RST
600 1D:602:1E:603:2D
TV_SCL0
601 2D
TV_SDA0
601 2D
W8003
L8033
22ohm
100MHz
NOT MOUNT
33pF(J)
C8023
C8013
C8011
C8012
C8014
C8016
C8015
F_GND
GDM220000778
[CN9]
PJ18
22ohm
100MHz
L8037
BLM21A121SPT
L8039
L8040
L8043
L8042
C_LED
602 2C
C_FAILSAFE_LED
602 2D
KEY2
601 6E
KEY1
601 6E
22ohm
100MHz
L8041
W8004
L8038
22ohm
100MHz
NOT MOUNT
C8017
C8020
C8019
C8018
C8024
C8025
33pF(J)
F_GND
for remote I/F(TV MICON)
[CN4]
PJ17
22ohm
100MHz
L8032
L8029
1Kohm
1Kohm
L8031
C_RMT_OUT
601 4E
C_RMT_IN
600 1D
W8002
L8030
22ohm
100MHz
NOT MOUNT
C8026
C8021
C8022
33pF(J)
F_GND

46HM84/52HM84/62HM84

TV MICON CONNECTOR (1)

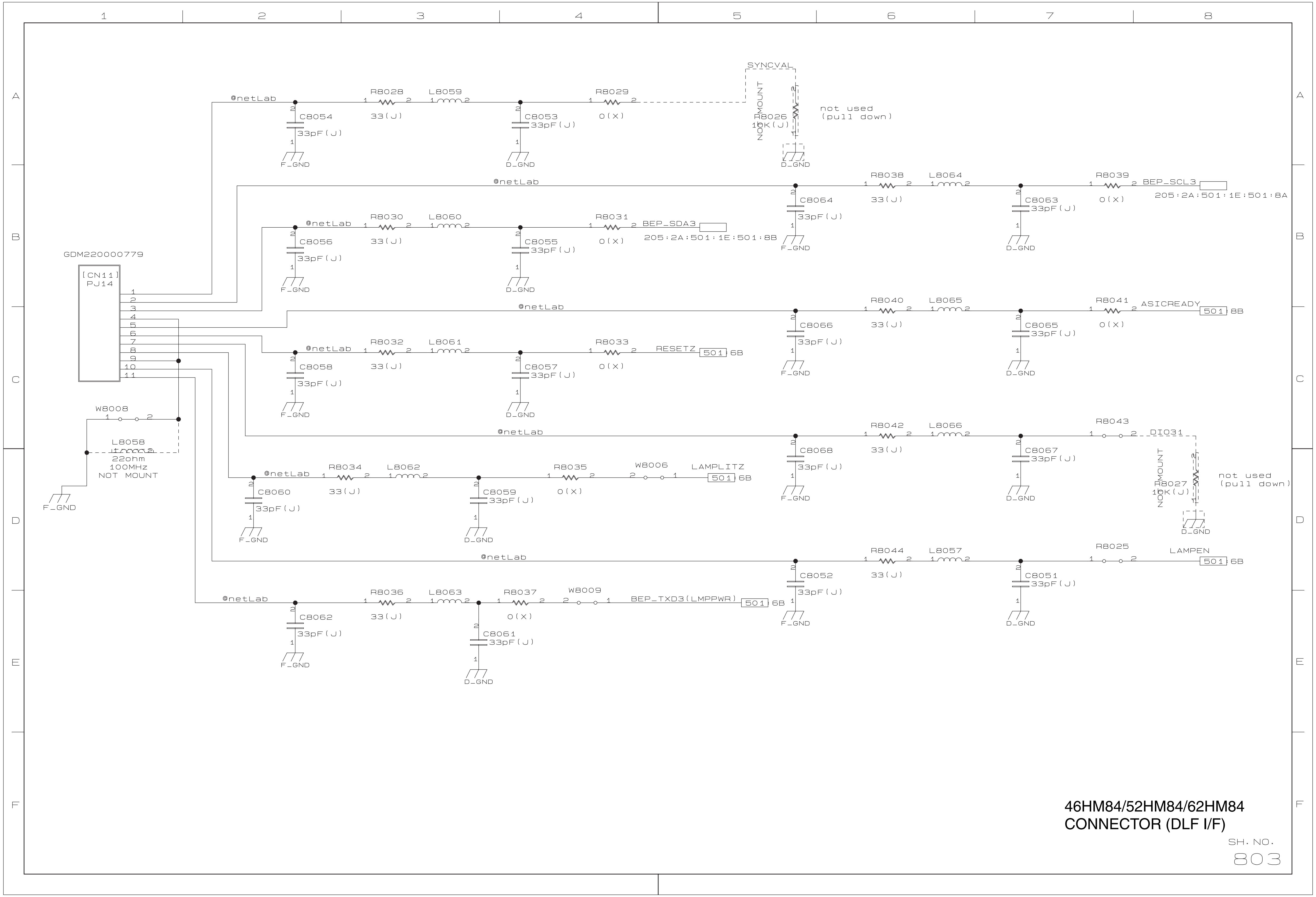
SH. NO.

801


TV-POWER I/F
[CN15]
PJ13
GDM220000789
W8005
NOT MOUNT
L8056
22ohm
100MHz
F_GND
D_GND
@netLab
R8020 33(J)
L8052
C8039 33pF(J)
C8048 33pF(J)
R8016 0(X)
FANDAC1 502 7C
R8024 33(J)
L8055
C8041 33pF(J)
C8050 33pF(J)
R8023
C_POWERCTL 602 2E
R8001 33(J)
L8044
C8028 33pF(J)
C8027 33pF(J)
R8002 0(X)
C_AFT1 600 8D
R8004 33(J)
L8045
C8029 33pF(J)
C8030 33pF(J)
R8003 0(X)
C_AFT2 600 8D
R8045 33(J)
L8068
C8082 33pF(J)
C8083 33pF(J)
R8046
FANDAC2 502 7C
R8015 33(J)
L8050
C8049 33pF(J)
C8045 33pF(J)
R8021 0(X)
C_ACP 600 1C
R8006 33(J)
L8046
C8031 33pF(J)
C8032 33pF(J)
R8005 0(X)
C_MUTE_A 602 7F
R8022 33(J)
L8053
C8043 33pF(J)
C8047 33pF(J)
R8019 0(X)
DOOR_OPEN 601 2B
R8008 33(J)
L8047
C8033 33pF(J)
C8034 33pF(J)
R8007 0(X)
C_SP_MUTE 601 8C
R8017 33(J)
L8054
C8040 33pF(J)
C8042 33pF(J)
R8014 0(X)
TV_SCL1
213:3B:503:2C:601:2D
R8010 33(J)
L8048
C8035 33pF(J)
C8036 33pF(J)
R8009 0(X)
C_MUTE_E 601 8C
R8018 33(J)
L8051
C8044 33pF(J)
C8046 33pF(J)
R8013 0(X)
TV_SDA1
213:3B:503:2D:601:2D
R8012 33(J)
L8049
C8037 33pF(J)
C8038 33pF(J)
R8011 0(X)
C_HDMIRST 601 8C
1
2
3
4
5
6
7
8
A
B
C
D
E
F

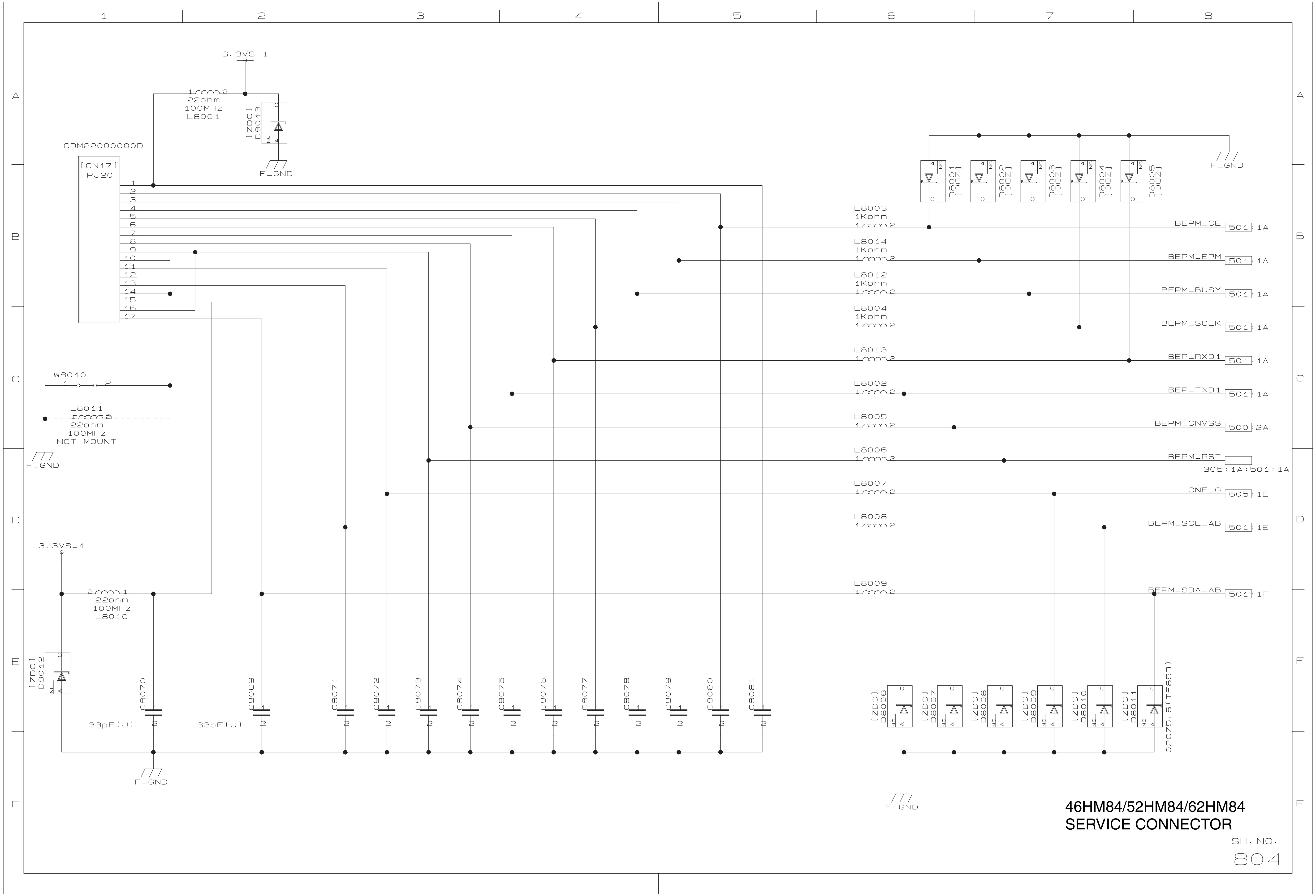
46HM84/52HM84/62HM84
CONNECTOR (TV MICON-POWER BOARD)

SH. NO.
802


1
2
3
4
5
6
7
8
A
B
C
D
E
F
GDM220000779
[CN11]
PJ14
1
2
3
4
5
6
7
8
9
10
11
W8008
L8058
22ohm
100MHz
NOT MOUNT
F_GND
@netLab
C8054
33pF(J)
R8028
33(J)
L8059
C8053
33pF(J)
D_GND
R8029
0(X)
SYNCVAL
NOT MOUNT
R8026
10K(J)
not used
(pull down)
R8038
33(J)
L8064
C8064
33pF(J)
C8063
33pF(J)
R8039
0(X)
BEP_SCL3
205:2A:501:1E:501:8A
C8056
33pF(J)
R8030
33(J)
L8060
C8055
33pF(J)
R8031
0(X)
BEP_SDA3
205:2A:501:1E:501:8B
R8040
33(J)
L8065
C8066
33pF(J)
C8065
33pF(J)
R8041
0(X)
ASICREADY
501:8B
C8058
33pF(J)
R8032
33(J)
L8061
C8057
33pF(J)
R8033
0(X)
RESETZ
501:6B
R8042
33(J)
L8066
C8068
33pF(J)
C8067
33pF(J)
R8043
DIO31
NOT MOUNT
R8027
10K(J)
not used
(pull down)
C8060
33pF(J)
R8034
33(J)
L8062
C8059
33pF(J)
R8035
0(X)
W8006
LAMPLITZ
501:6B
R8044
33(J)
L8057
C8052
33pF(J)
C8051
33pF(J)
R8025
LAMPEN
501:6B
C8062
33pF(J)
R8036
33(J)
L8063
R8037
0(X)
C8061
33pF(J)
W8009
BEP_TXD3(LMPPWR)
501:6B

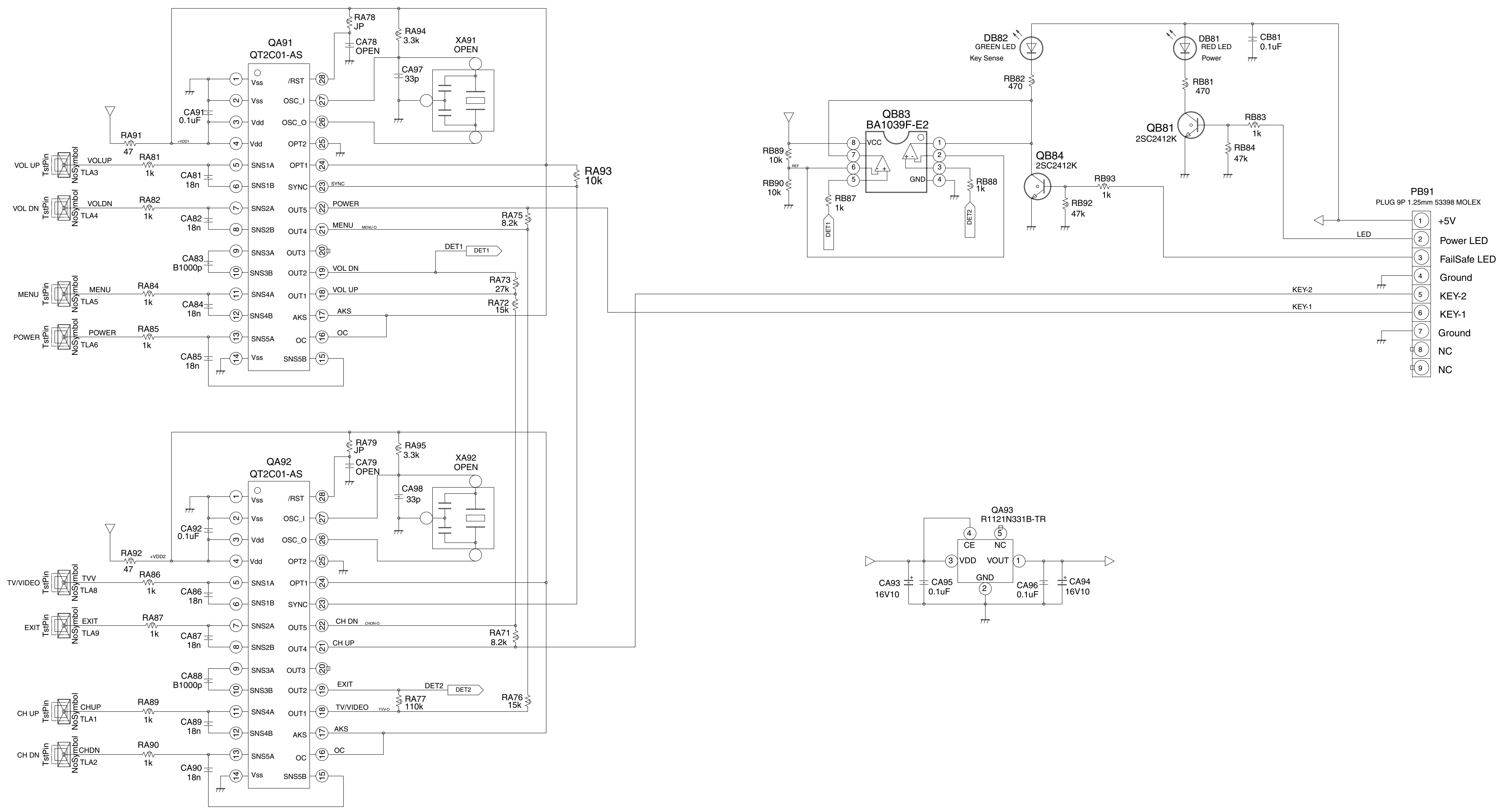
46HM84/52HM84/62HM84
CONNECTOR (DLF I/F)

SH. NO.
803

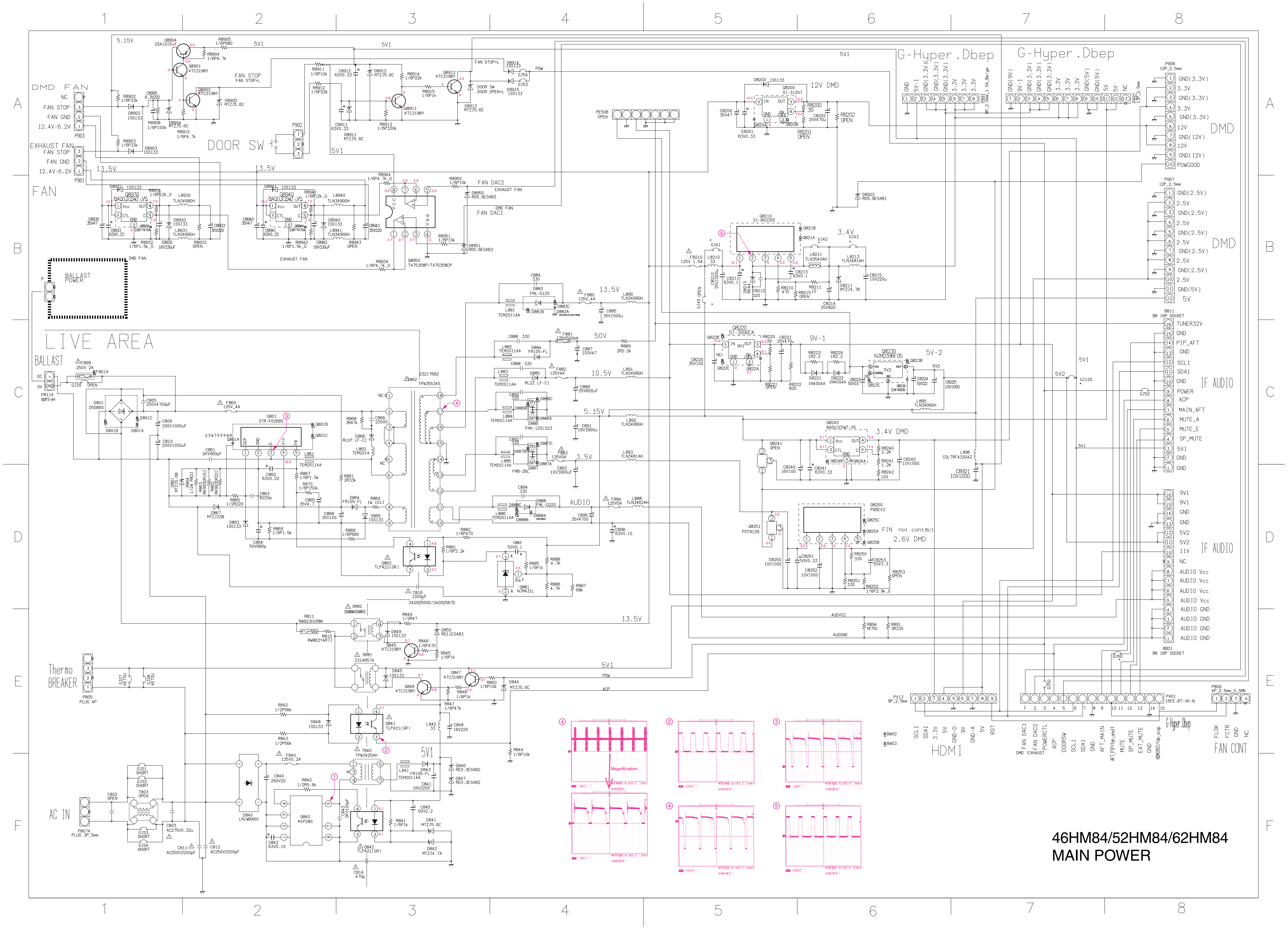

3.3VS_1
1 2
22ohm
100MHz
L8001
[ZDC]
D8013
F_GND
GDM22000000D
[CN17]
PJ20
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
W8010
L8011
22ohm
100MHz
NOT MOUNT
F_GND
3.3VS_1
22ohm
100MHz
L8010
[ZDC]
D8012
C8070
33pF(J)
C8069
33pF(J)
C8071
C8072
C8073
C8074
C8075
C8076
C8077
C8078
C8079
C8080
C8081
F_GND
D8001
D8002
D8003
D8004
D8005
[ZDC]
F_GND
L8003
1Kohm
BEPM_CE
501 1A
L8014
1Kohm
BEPM_EPM
501 1A
L8012
1Kohm
BEPM_BUSY
501 1A
L8004
1Kohm
BEPM_SCLK
501 1A
L8013
BEP_RXD1
501 1A
L8002
BEP_TXD1
501 1A
L8005
BEPM_CNVSS
500 2A
L8006
BEPM_RST
305:1A:501:1A
L8007
CNFLG
605 1E
L8008
BEPM_SCL_AB
501 1E
L8009
BEPM_SDA_AB
501 1F
[ZDC]
D8006
D8007
D8008
D8009
D8010
D8011
02CZ5.6(TE85R)
F_GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

46HM84/52HM84/62HM84
SERVICE CONNECTOR

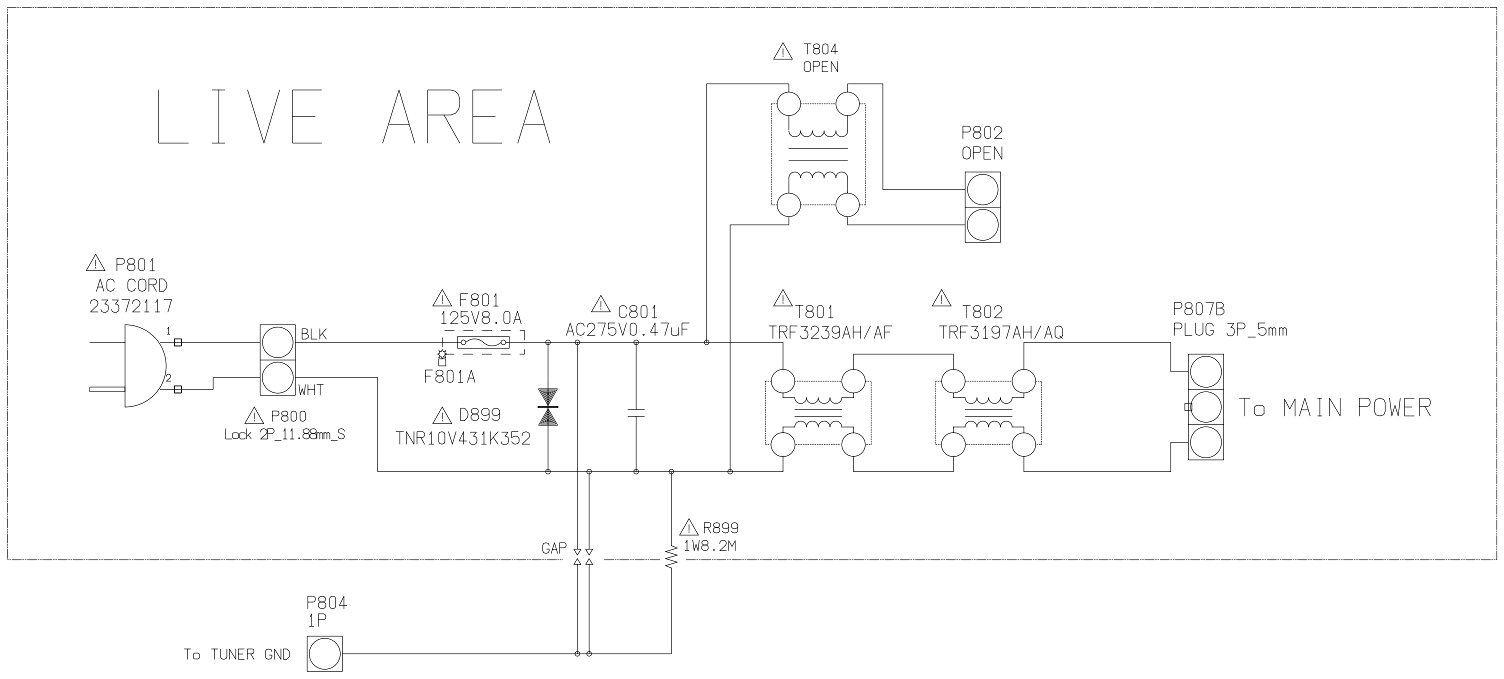
SH. NO.
804


QA91
QT2C01-AS
QA92
QT2C01-AS
RA78 JP
CA78 OPEN
RA94 3.3k
XA91 OPEN
CA97 33p
RA79 JP
CA79 OPEN
RA95 3.3k
XA92 OPEN
CA98 33p
CA91 0.1uF
CA92 0.1uF
RA91 47
RA92 47
VOL UP
VOLUP
RA81 1k
TLA3
VOL DN
VOLDN
RA82 1k
TLA4
MENU
RA84 1k
TLA5
POWER
RA85 1k
TLA6
TV/VIDEO
TVV
RA86 1k
TLA8
EXIT
RA87 1k
TLA9
CH UP
CHUP
RA89 1k
TLA1
CH DN
CHDN
RA90 1k
TLA2
TstPin
NoSymbol
CA81 18n
CA82 18n
CA83 B1000p
CA84 18n
CA85 18n
CA86 18n
CA87 18n
CA88 B1000p
CA89 18n
CA90 18n
Vss
Vdd
SNS1A
SNS1B
SNS2A
SNS2B
SNS3A
SNS3B
SNS4A
SNS4B
SNS5A
SNS5B
/RST
OSC_I
OSC_O
OPT2
OPT1
SYNC
OUT5
OUT4
OUT3
OUT2
OUT1
AKS
OC
POWER
MENU
VOL DN
VOL UP
CH DN
CH UP
EXIT
TV/VIDEO
DET1
DET2
RA93 10k
RA75 8.2k
RA73 27k
RA72 15k
RA71 8.2k
RA76 15k
RA77 110k
DB82
GREEN LED
Key Sense
DB81
RED LED
Power
CB81 0.1uF
RB82 470
RB81 470
QB83
BA1039F-E2
VCC
GND
REF
RB89 10k
RB90 10k
RB87 1k
RB88 1k
QB84
2SC2412K
QB81
2SC2412K
RB83 1k
RB84 47k
RB93 1k
RB92 47k
PB91
PLUG 9P 1.25mm 53398 MOLEX
+5V
Power LED
FailSafe LED
Ground
KEY-2
KEY-1
Ground
NC
NC
LED
QA93
R1121N331B-TR
CE
NC
VDD
VOUT
GND
CA93 16V10
CA95 0.1uF
CA96 0.1uF
CA94 16V10

46HM84/52HM84/62HM84
Front Key


DMD FAN
EXHAUST FAN
FAN
DOOR SW
BALLAST POWER
LIVE AREA
BALLAST
Thermo BREAKER
AC IN
12V DMD
3.4V DMD
2.6V DMD
9V-1
5V-2
13.5V
50V
10.5V
5.15V
3.5V
AUDIO
5V1
G-Hyper.Dbep
DMD
IF AUDIO
HDMI
FAN CONT
Magnification

46HM84/52HM84/62HM84
MAIN POWER


LIVE AREA
T804
OPEN
P802
OPEN
P801
AC CORD
23372117
1
2
BLK
WHT
P800
Lock 2P_11.88mm_S
F801
125V8.0A
F801A
D899
TNR10V431K352
C801
AC275V0.47uF
T801
TRF3239AH/AF
T802
TRF3197AH/AQ
P807B
PLUG 3P_5mm
To MAIN POWER
GAP
R899
1W8.2M
P804
1P
To TUNER GND

46HM84/52HM84/62HM84
AC IN

SCHEMATIC DIAGRAM

MODEL : 46HM84/52HM84/62HM84

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

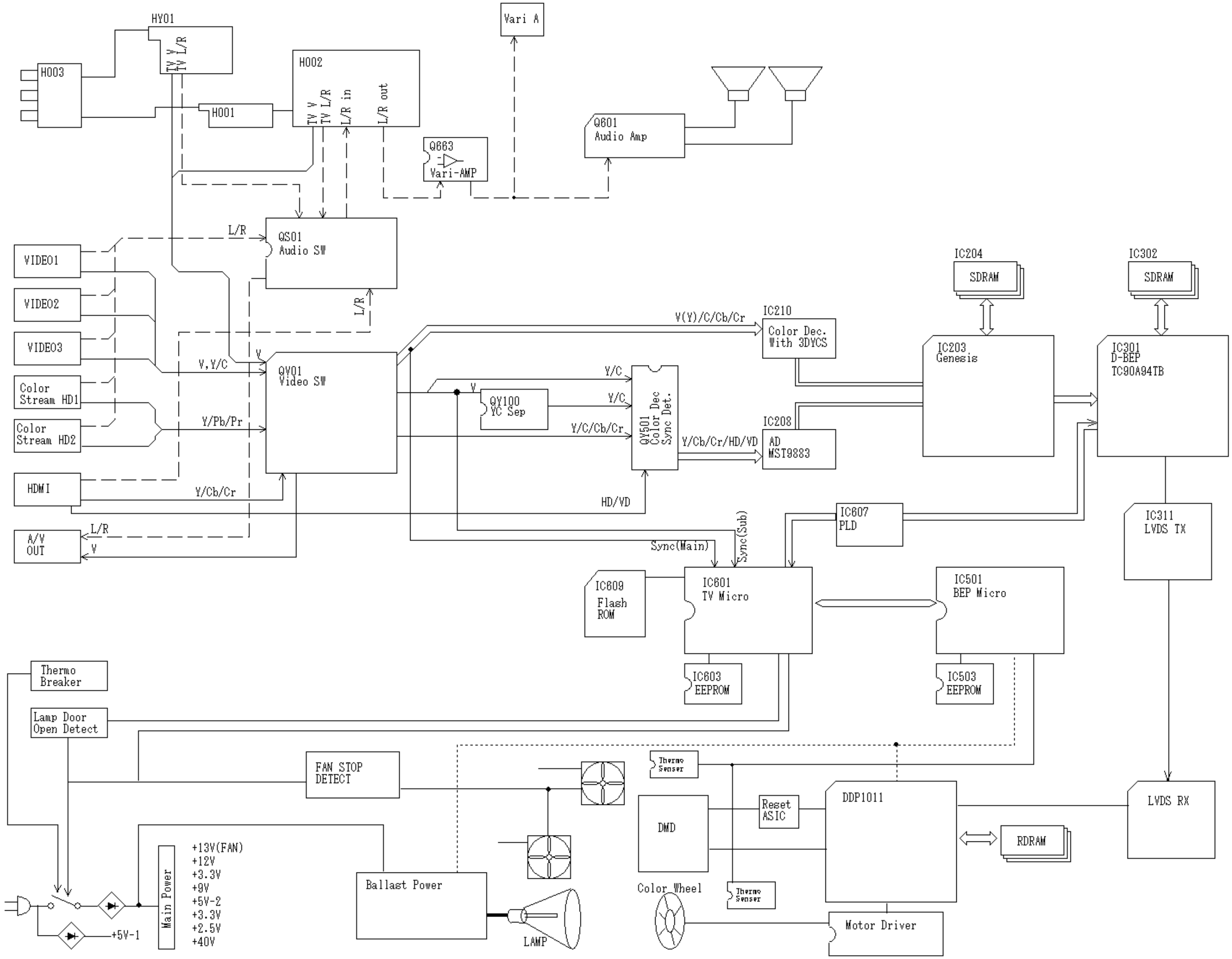
NOTE:

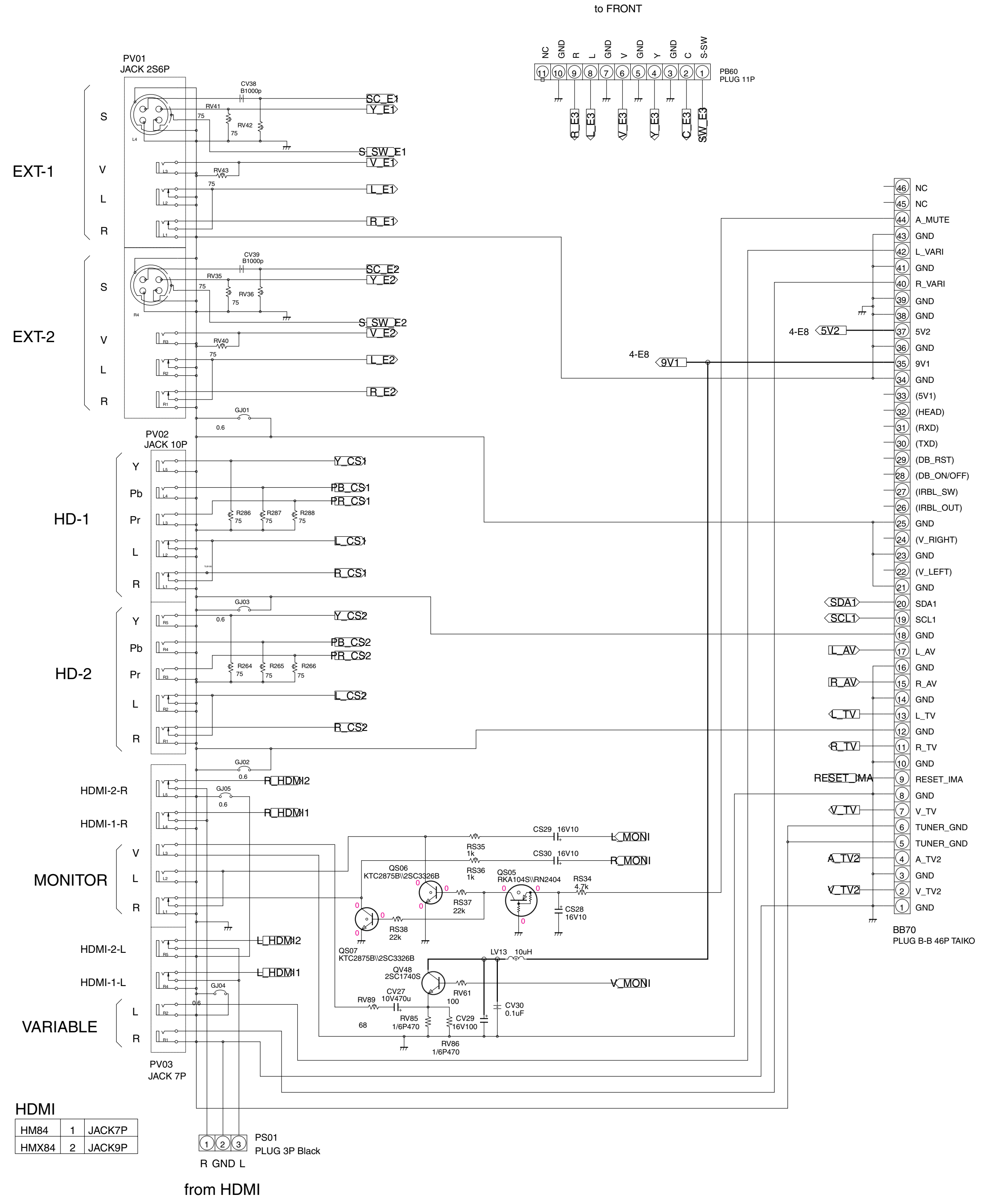
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt
   10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   +─┤├─ Electolytic capacitor Ⓜ─┤├─ Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMA TIC DIAGRAM STRUCTURE:

- BACK AV Circuit
  - (1/5) [SHEET - 1/5] 1/52
  - (2/5) [SHEET - 2/5] 2/52
  - (3/5) [SHEET - 3/5] 3/52
  - (4/5) [SHEET - 4/5] 4/52
  - (5/5) [SHEET - 5/5] 5/52
- IF AUDIO Circuit
  - (1/3) [SHEET - 1/3] 6/12
  - (2/3) [SHEET - 2/3] 7/52
  - (3/3) [SHEET - 3/3] 8/52
- F-AV Circuit 9/52
- AV_CONNECTOR Circuit 10/52
- AD_LPF Circuit 11/52
- DVCD2_LPF Circuit 12/52
- DVCD1_LPF Circuit 13/52
- 3chADC HD Circuit 14/52
- 3chADC MST9883 Circuit 15/52
- DVCD CSYNCIN Circuit 16/52
- DVCD TC90A92AFG Circuit 17/52
- DVCD POWER Circuit 18/52
- GENESIS Circuit
  - (1/2) [SHEET - 1/2] 19/52
  - (2/2) [SHEET - 2/2] 20/52
- SDRAM Circuit 21/52
- GENESIS_POWER Circuit 22/52
- GENESIS_IIC Circuit 23/52
- SCALER DIGITAL INPUT Circuit 24/52
- SCALER CAPTURE INPUT Circuit 25/52
- DDR SDRAM Circuit 26/52
- SCALER PLL Circuit 27/52
- OSD for North America Circuit 28/52
- IIC Circuit 29/52
- 94TB POWER Circuit 30/52
- LVDS OUT Circuit 31/52
- Power (3.3V_2 to 2.5V_DVCC) Circuit 32/52
- LVDS OUT CONNECTOR Circuit 33/52
- DC/DC CONVERTER Circuit 34/52
- SUB MICON Circuit
  - (1/3) [SHEET - 1/3] 35/52
  - (2/3) [SHEET - 2/3] 36/52
  - (3/3) [SHEET - 3/3] 37/52
- OSD MICON 4/4 Circuit 38/52
- MICON Circuit
  - (1/3) [SHEET - 1/3] 39/52
  - (2/3) [SHEET - 2/3] 40/52
  - (2/3) [SHEET - 3/3] 41/52
- TV MICON RESET IC & FLASH Circuit 42/52
- SYNC_DETECT Circuit 43/52
- PLD (US OSD SYNC Generator) Circuit 44/52
- POWER_CONNECTOR Circuit 45/52
- TV MICON CONNECTOR (1) Circuit 46/52
- CONNECTOR (TV MICON-POWER BOARD) Circuit 47/52
- CONNECTOR (DLF I/F) Circuit 48/52
- SERVICE CONNECTOR Circuit 49/52
- Front Key Circuit 50/52
- MAIN POWER Circuit 51/52
- AC IN Circuit 52/52

CIRCUIT BLOCK DIAGRAM

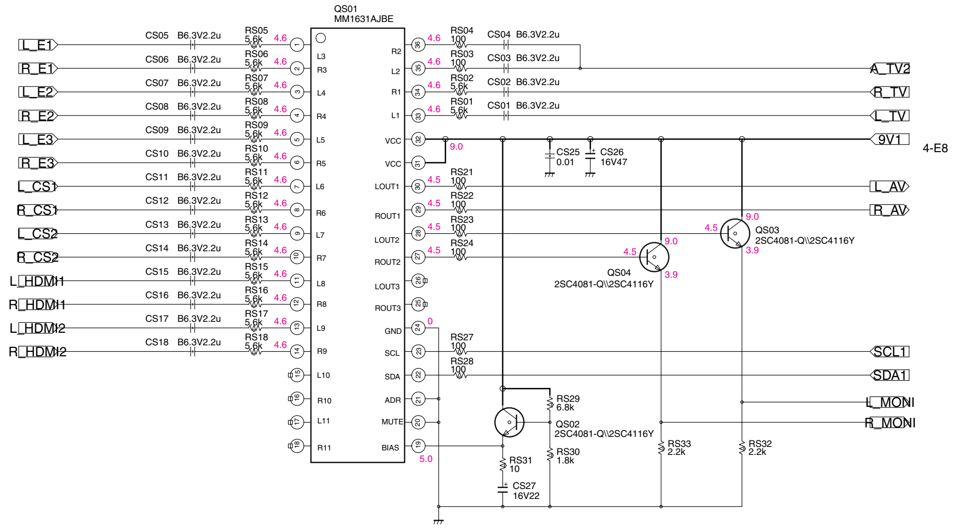

HY01
TV V
TV L/R
H003
H001
H002
TV V
TV L/R
L/R in
L/R out
Vari A
Q663
Vari-AMP
Q601
Audio Amp
QS01
Audio SW
L/R
L/R
VIDEO1
VIDEO2
VIDEO3
Color Stream HD1
Color Stream HD2
HDMI
A/V OUT
L/R
V
V,Y/C
V
Y/Pb/Pr
Y/Cb/Cr
QV01
Video SW
V(Y)/C/Cb/Cr
IC210
Color Dec. With 3DYCS
V
QY100
YC Sep
Y/C
Y/C
Y/C/Cb/Cr
QY501
Color Dec
Sync Det.
Y/Cb/Cr/HD/VD
IC208
AD
MST9883
HD/VD
IC204
SDRAM
IC203
Genesis
IC302
SDRAM
IC301
D-BEP
TC90A94TB
IC311
LVDS TX
IC607
PLD
Sync(Main)
Sync(Sub)
IC609
Flash ROM
IC601
TV Micro
IC603
EEPROM
IC501
BEP Micro
IC503
EEPROM
Thermo Breaker
Lamp Door Open Detect
FAN STOP DETECT
Thermo Senser
Reset ASIC
DDP1011
DMD
RDRAM
LVDS RX
Thermo Senser
Color Wheel
Motor Driver
Ballast Power
LAMP
Main Power
+13V(FAN)
+12V
+3.3V
+9V
+5V-2
+3.3V
+2.5V
+40V
+5V-1


to FRONT
PB60
PLUG 11P
NC
GND
R
L
GND
V
GND
Y
GND
C
S-SW
R_E3
L_E3
V_E3
Y_E3
C_E3
SW_E3
PV01
JACK 2S6P
EXT-1
EXT-2
S
V
L
R
CV38
B1000p
CV39
B1000p
RV41
RV42
RV43
RV35
RV36
RV40
75
SC_E1
Y_E1
S_SW_E1
V_E1
L_E1
R_E1
SC_E2
Y_E2
S_SW_E2
V_E2
L_E2
R_E2
GJ01
0.6
PV02
JACK 10P
HD-1
HD-2
Y
Pb
Pr
R286
R287
R288
R264
R265
R266
Y_CS1
PB_CS1
PR_CS1
L_CS1
R_CS1
GJ03
Y_CS2
PB_CS2
PR_CS2
L_CS2
R_CS2
GJ02
GJ05
R_HDMI2
R_HDMI1
HDMI-2-R
HDMI-1-R
MONITOR
HDMI-2-L
HDMI-1-L
VARIABLE
L_HDMI2
L_HDMI1
GJ04
PV03
JACK 7P
CS29 16V10
CS30 16V10
L_MONI
R_MONI
RS35 1k
RS36 1k
QS06
KTC2875B\2SC3326B
QS05
RKA104S\RN2404
RS34 4.7k
RS37 22k
RS38 22k
CS28 16V10
QS07
KTC2875B\2SC3326B
QV48
2SC1740S
LV13 10uH
V_MONI
RV89 68
CV27 10V470u
RV61 100
CV30 0.1uF
RV85 1/6P470
CV29 16V100
RV86 1/6P470
PS01
PLUG 3P Black
R GND L
from HDMI
4-E8
5V2
9V1
BB70
PLUG B-B 46P TAIKO
46 NC
45 NC
44 A_MUTE
43 GND
42 L_VARI
41 GND
40 R_VARI
39 GND
38 GND
37 5V2
36 GND
35 9V1
34 GND
33 (5V1)
32 (HEAD)
31 (RXD)
30 (TXD)
29 (DB_RST)
28 (DB_ON/OFF)
27 (IRBL_SW)
26 (IRBL_OUT)
25 GND
24 (V_RIGHT)
23 GND
22 (V_LEFT)
21 GND
20 SDA1
19 SCL1
18 GND
17 L_AV
16 GND
15 R_AV
14 GND
13 L_TV
12 GND
11 R_TV
10 GND
9 RESET_IMA
8 GND
7 V_TV
6 TUNER_GND
5 TUNER_GND
4 A_TV2
3 GND
2 V_TV2
1 GND
SDA1
SCL1
L_AV
R_AV
L_TV
R_TV
RESET_IMA
V_TV
A_TV2
V_TV2

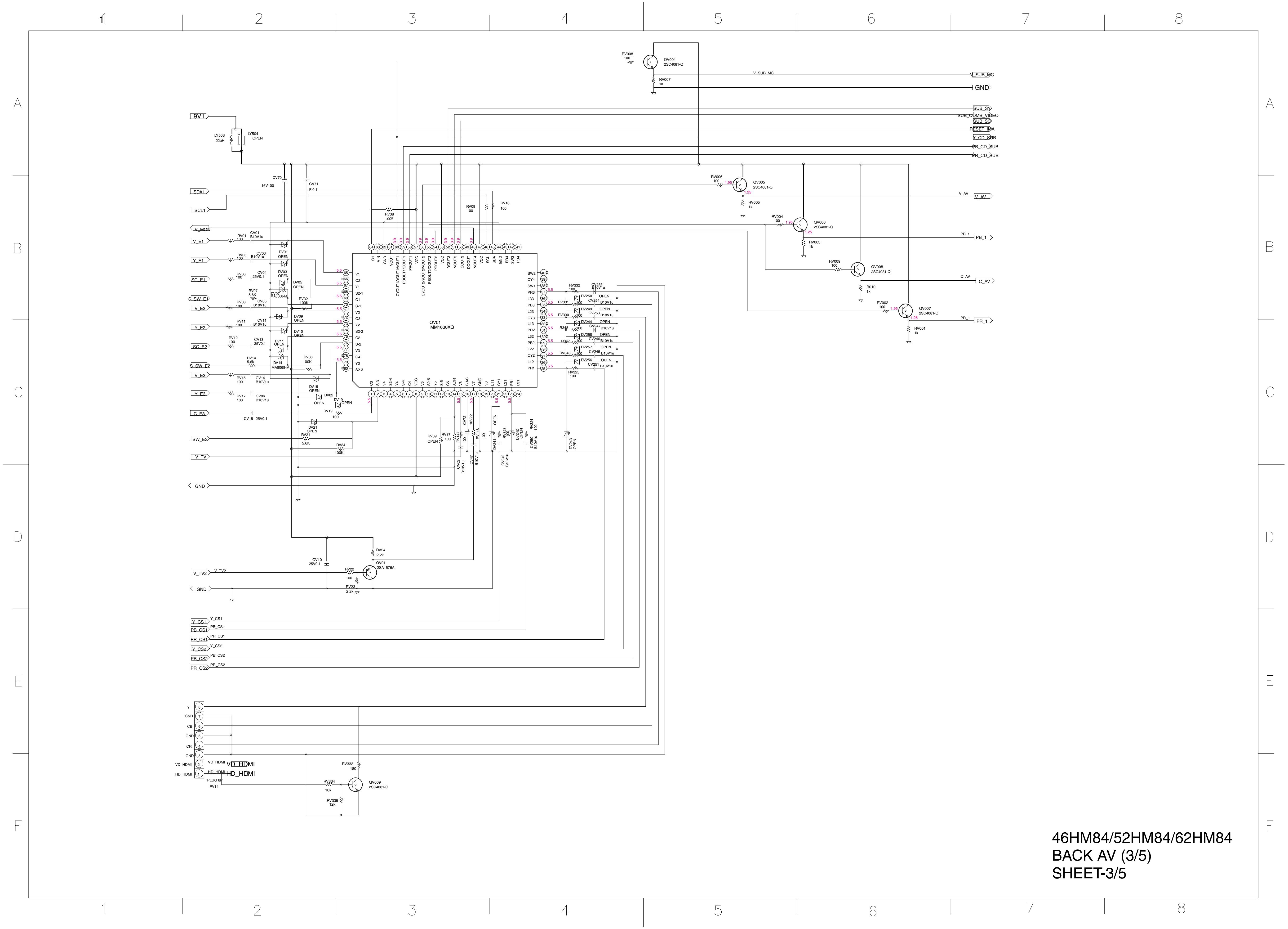
HDMI

HM84	1	JACK7P
HMX84	2	JACK9P

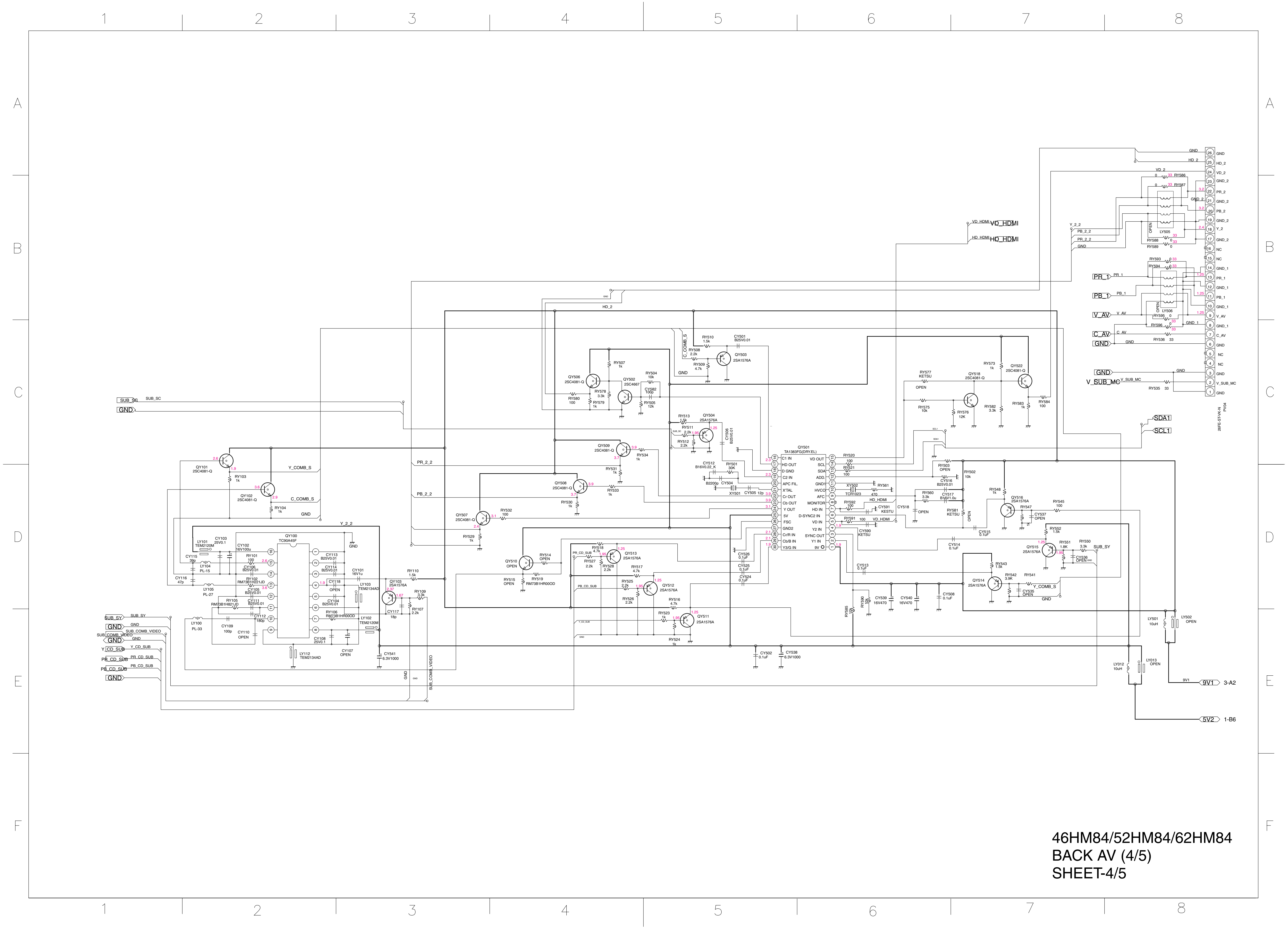
46HM84/52HM84/62HM84
BACK AV (1/5)
SHEET-1/5


QS01
MM1631AJBE
L_E1
R_E1
L_E2
R_E2
L_E3
R_E3
L_CS1
R_CS1
L_CS2
R_CS2
L_HDMI1
R_HDMI1
L_HDMI2
R_HDMI2
CS05 B6.3V2.2u
CS06 B6.3V2.2u
CS07 B6.3V2.2u
CS08 B6.3V2.2u
CS09 B6.3V2.2u
CS10 B6.3V2.2u
CS11 B6.3V2.2u
CS12 B6.3V2.2u
CS13 B6.3V2.2u
CS14 B6.3V2.2u
CS15 B6.3V2.2u
CS16 B6.3V2.2u
CS17 B6.3V2.2u
CS18 B6.3V2.2u
RS05 5.6k
RS06 5.6k
RS07 5.6k
RS08 5.6k
RS09 5.6k
RS10 5.6k
RS11 5.6k
RS12 5.6k
RS13 5.6k
RS14 5.6k
RS15 5.6k
RS16 5.6k
RS17 5.6k
RS18 5.6k
4.6
L3
R3
L4
R4
L5
R5
L6
R6
L7
R7
L8
R8
L9
R9
L10
R10
L11
R11
R2
L2
R1
L1
VCC
VCC
LOUT1
ROUT1
LOUT2
ROUT2
LOUT3
ROUT3
GND
SCL
SDA
ADR
MUTE
BIAS
RS04 100
RS03 100
RS02 5.6k
RS01 5.6k
CS04 B6.3V2.2u
CS03 B6.3V2.2u
CS02 B6.3V2.2u
CS01 B6.3V2.2u
A_TV2
R_TV
L_TV
9V1
4-E8
9.0
CS25 0.01
CS26 16V47
RS21 100
RS22 100
RS23 100
RS24 100
4.5
L_AV
R_AV
QS03
2SC4081-Q\\2SC4116Y
QS04
2SC4081-Q\\2SC4116Y
3.9
0
RS27 100
RS28 100
SCL1
SDA1
L_MONI
R_MONI
RS29 6.8k
QS02
2SC4081-Q\\2SC4116Y
RS30 1.8k
RS31 10
CS27 16V22
RS33 2.2k
RS32 2.2k
5.0

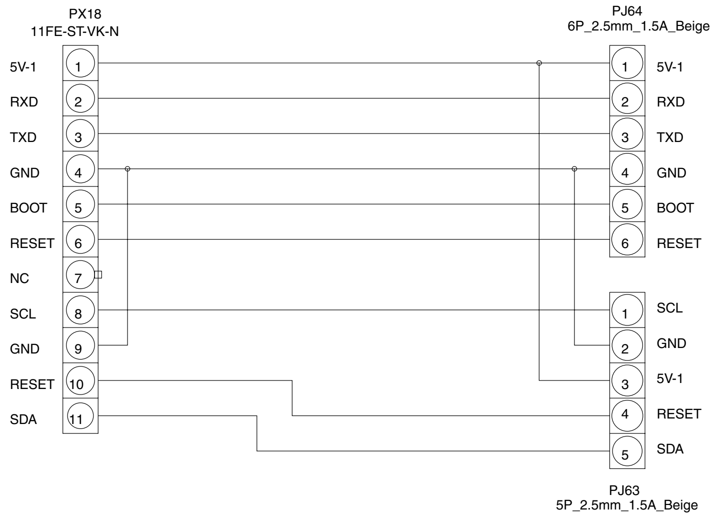
46HM84/52HM84/62HM84
BACK AV (2/5)
SHEET-2/5

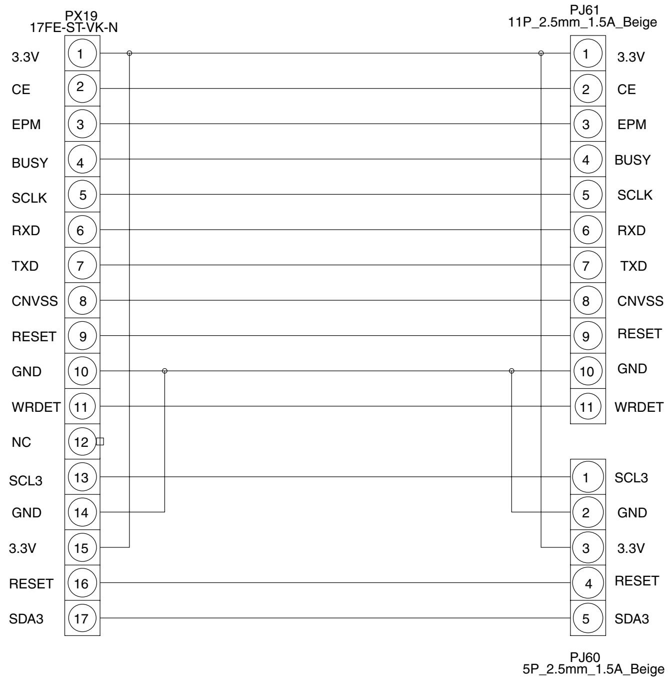

1
2
3
4
5
6
7
8
A
B
C
D
E
F
9V1
LY503
22uH
LY504
OPEN
CV70
16V100
CV71
F 0.1
SDA1
SCL1
V_MONI
V_E1
Y_E1
SC_E1
S_SW_E1
V_E2
Y_E2
SC_E2
S_SW_E2
V_E3
Y_E3
C_E3
SW_E3
V_TV
GND
V_TV2
Y_CS1
PB_CS1
PR_CS1
Y_CS2
PB_CS2
PR_CS2
QV01
MM1630XQ
RV38
22K
RV09
100
RV10
100
RV008
100
QV004
2SC4081-Q
RV007
1k
V_SUB_MC
GND
SUB_SY
SUB_COMB_VIDEO
SUB_SC
RESET_IMA
V_CD_SUB
PB_CD_SUB
PR_CD_SUB
RV006
100
QV005
2SC4081-Q
RV005
1k
V_AV
RV004
100
QV006
2SC4081-Q
RV003
1k
PB_1
RV009
100
QV008
2SC4081-Q
R010
1k
C_AV
RV002
100
QV007
2SC4081-Q
RV001
1k
PR_1
RV24
2.2k
QV91
2SA1576A
CV10
25V0.1
RV22
100
RV23
2.2k
Y
GND
CB
GND
CR
GND
VD_HDMI
HD_HDMI
PLUG 8P
PV14
RV333
180
RV334
10k
RV335
12k
QV009
2SC4081-Q

46HM84/52HM84/62HM84
BACK AV (3/5)
SHEET-3/5

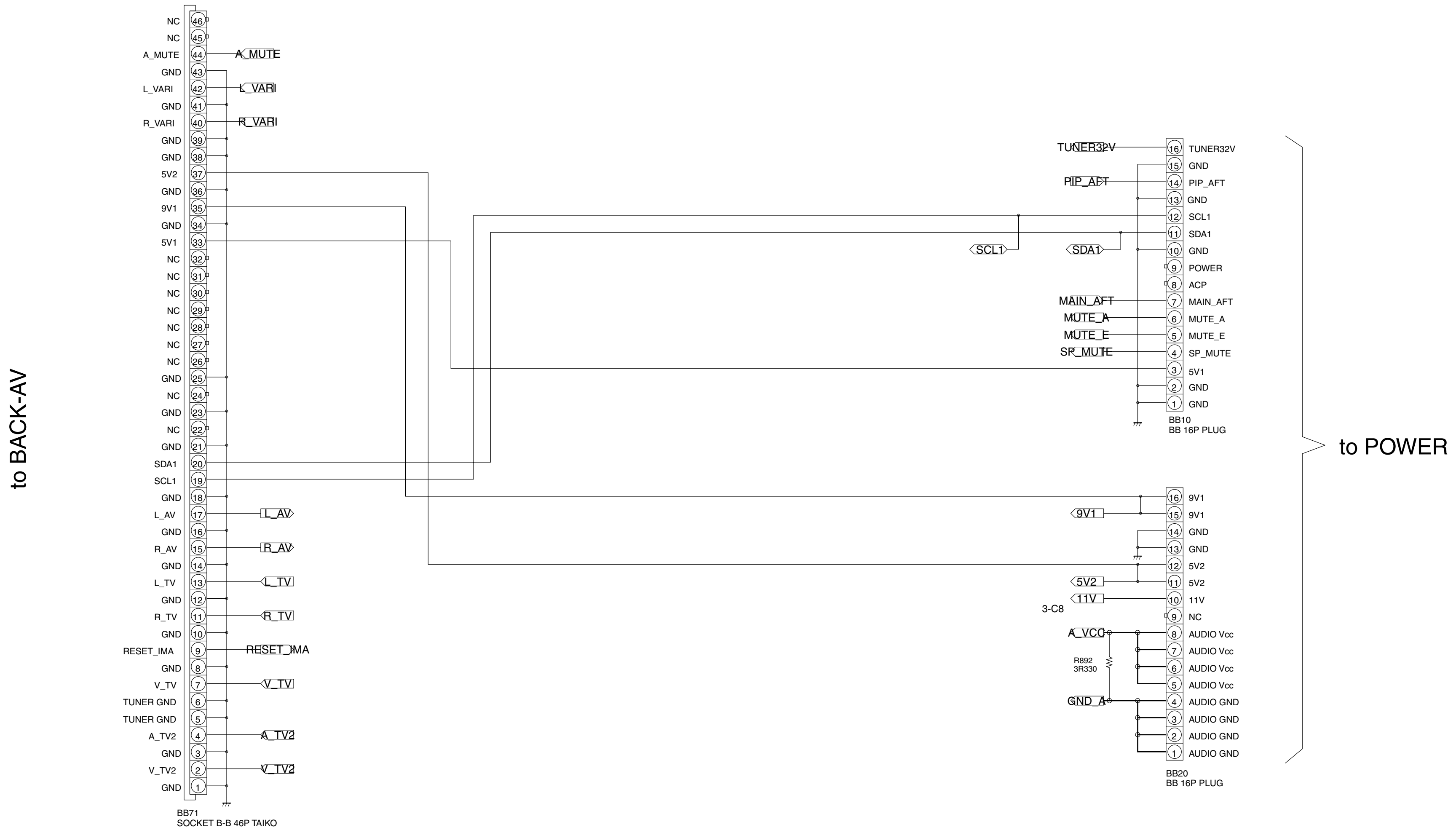

QY100 TC90A45F
QY501 TA1383FG(DRY,EL)
SUB_SC
GND
SUB_SY
SUB_COMB_VIDEO
Y_CD_SUB
PB_CD_SUB
PR_CD_SUB
Y_COMB_S
C_COMB_S
PR_2_2
PB_2_2
Y_2_2
HD_2
VD_HDMI
HD_HDMI
SDA1
SCL1
PR_1
PB_1
V_AV
C_AV
V_SUB_MC
9V1
3-A2
5V2
1-B6
QY101 2SC4081-Q
QY102 2SC4081-Q
QY103 2SA1576A
QY502 2SC4667
QY503 2SA1576A
QY504 2SA1576A
QY506 2SC4081-Q
QY507 2SC4081-Q
QY508 2SC4081-Q
QY509 2SC4081-Q
QY510 OPEN
QY511 2SA1576A
QY512 2SA1576A
QY513 2SA1576A
QY514 2SA1576A
QY515 2SA1576A
QY516 2SA1576A
QY518 2SC4081-Q
QY522 2SC4081-Q
XY502 TCR1023
LY505
LY506
LY501 10uH
LY502 OPEN
LY012 10uH
LY013 OPEN
CY541 6.3V1000
CY538 6.3V1000
CY539 16V470
CY540 16V470

46HM84/52HM84/62HM84
BACK AV (4/5)
SHEET-4/5

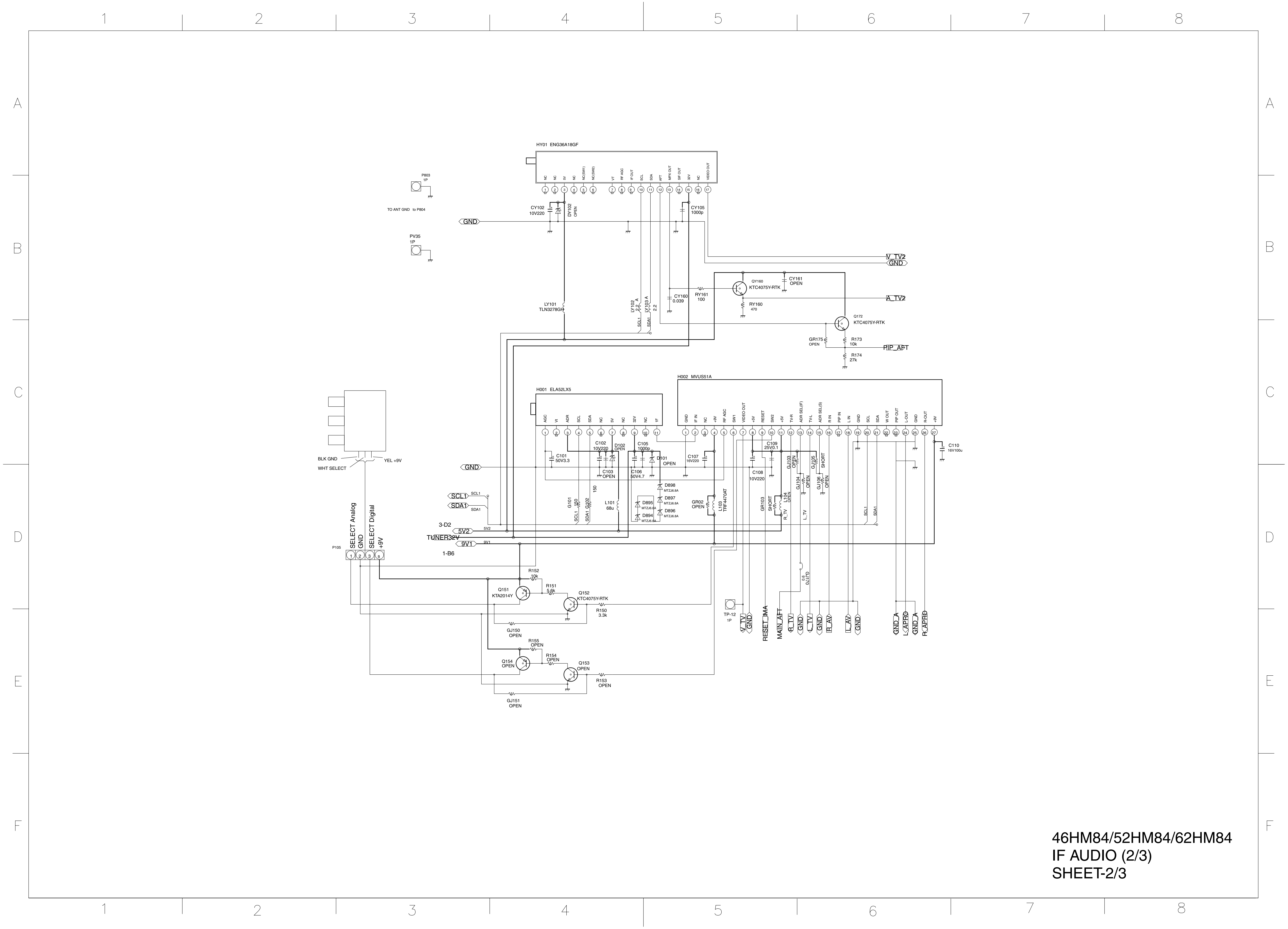

PX18
11FE-ST-VK-N
5V-1 1
RXD 2
TXD 3
GND 4
BOOT 5
RESET 6
NC 7
SCL 8
GND 9
RESET 10
SDA 11
PJ64
6P_2.5mm_1.5A_Beige
1 5V-1
2 RXD
3 TXD
4 GND
5 BOOT
6 RESET
1 SCL
2 GND
3 5V-1
4 RESET
5 SDA
PJ63
5P_2.5mm_1.5A_Beige


PX19
17FE-ST-VK-N
3.3V 1
CE 2
EPM 3
BUSY 4
SCLK 5
RXD 6
TXD 7
CNVSS 8
RESET 9
GND 10
WRDET 11
NC 12
SCL3 13
GND 14
3.3V 15
RESET 16
SDA3 17
PJ61
11P_2.5mm_1.5A_Beige
1 3.3V
2 CE
3 EPM
4 BUSY
5 SCLK
6 RXD
7 TXD
8 CNVSS
9 RESET
10 GND
11 WRDET
1 SCL3
2 GND
3 3.3V
4 RESET
5 SDA3
PJ60
5P_2.5mm_1.5A_Beige

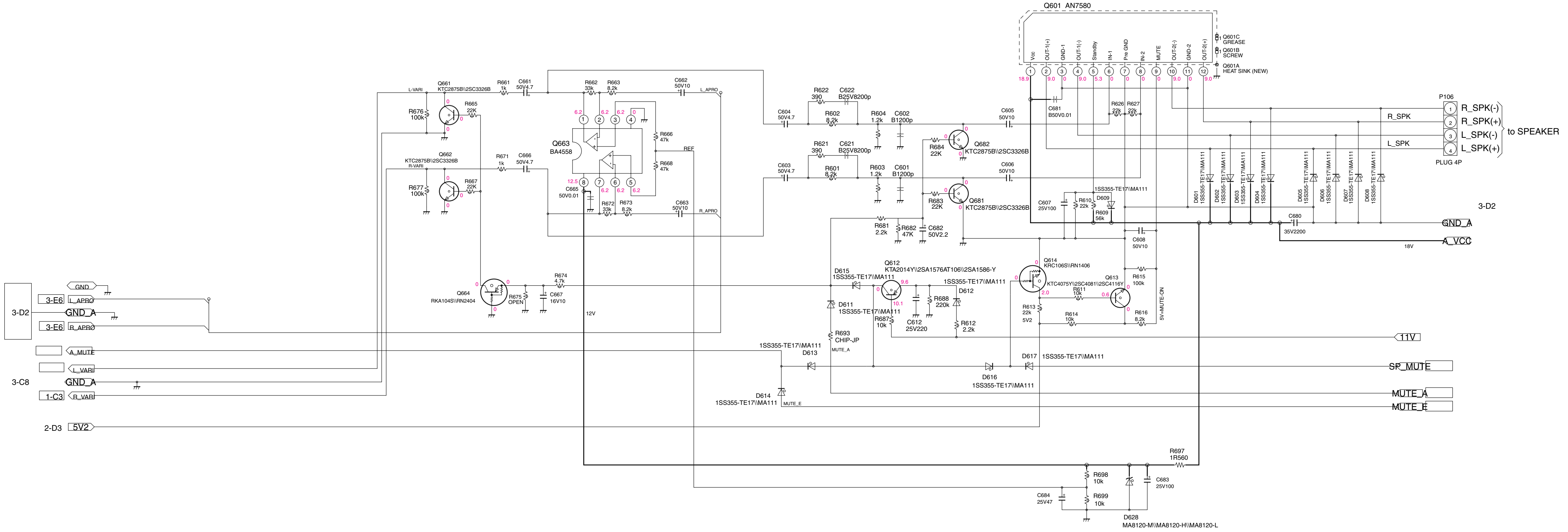
46HM84/52HM84/62HM84
BACK AV (5/5)
SHEET-5/5


to BACK-AV
NC 46
NC 45
A_MUTE 44 A_MUTE
GND 43
L_VARI 42 L_VARI
GND 41
R_VARI 40 R_VARI
GND 39
GND 38
5V2 37
GND 36
9V1 35
GND 34
5V1 33
NC 32
NC 31
NC 30
NC 29
NC 28
NC 27
NC 26
GND 25
NC 24
GND 23
NC 22
GND 21
SDA1 20
SCL1 19
GND 18
L_AV 17 L_AV
GND 16
R_AV 15 R_AV
GND 14
L_TV 13 L_TV
GND 12
R_TV 11 R_TV
GND 10
RESET_IMA 9 RESET_IMA
GND 8
V_TV 7 V_TV
TUNER GND 6
TUNER GND 5
A_TV2 4 A_TV2
GND 3
V_TV2 2 V_TV2
GND 1
BB71
SOCKET B-B 46P TAIKO
TUNER32V 16 TUNER32V
15 GND
PIP_AFT 14 PIP_AFT
13 GND
12 SCL1
11 SDA1
SCL1
SDA1
10 GND
9 POWER
8 ACP
MAIN_AFT 7 MAIN_AFT
MUTE_A 6 MUTE_A
MUTE_E 5 MUTE_E
SP_MUTE 4 SP_MUTE
3 5V1
2 GND
1 GND
BB10
BB 16P PLUG
to POWER
16 9V1
9V1 15 9V1
14 GND
13 GND
12 5V2
5V2 11 5V2
11V 10 11V
3-C8
9 NC
A_VCC 8 AUDIO Vcc
7 AUDIO Vcc
R892
3R330
6 AUDIO Vcc
5 AUDIO Vcc
GND_A 4 AUDIO GND
3 AUDIO GND
2 AUDIO GND
1 AUDIO GND
BB20
BB 16P PLUG

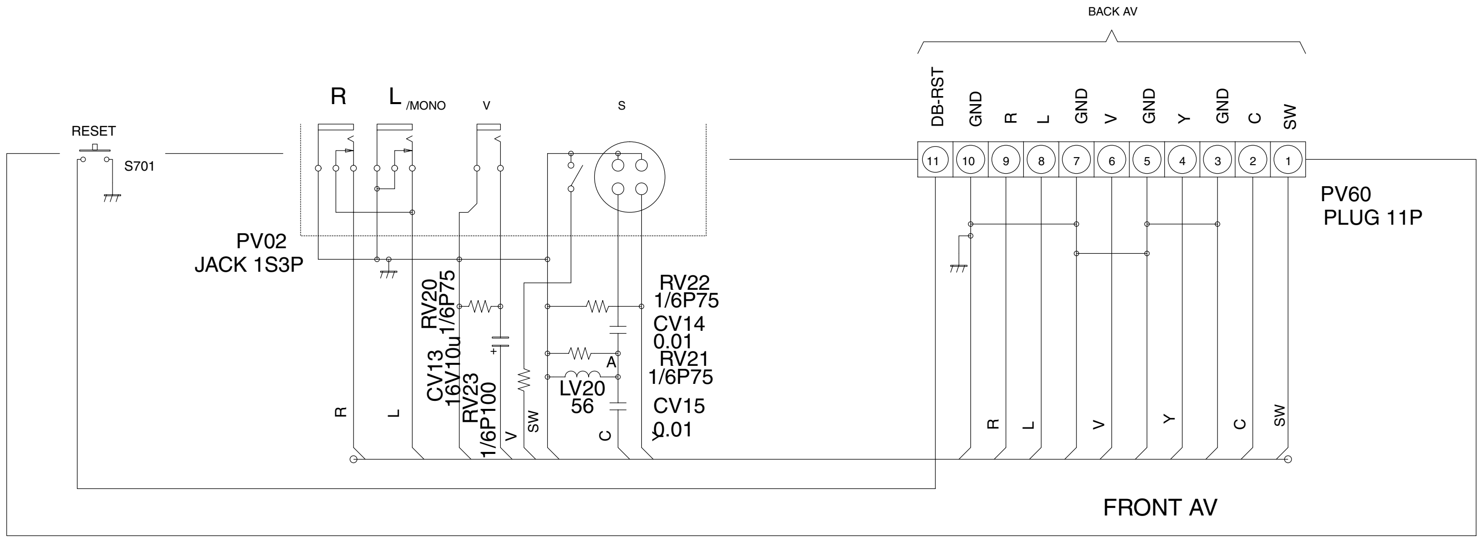
46HM84/52HM84/62HM84
IF AUDIO (1/3)
SHEET-1/3


HY01 ENG36A18GF
NC
5V
NC(SW1)
NC(SW2)
VT
RF AGC
IF OUT
SCL
SDA
AFT
MPX OUT
SIF OUT
32V
VIDEO OUT
P803
1P
TO ANT GND to P804
PV35
1P
CY102
10V220
DY102
OPEN
CY105
1000p
GND
V_TV2
GND
QY160
KTC4075Y-RTK
CY161
OPEN
CY160
0.039
RY161
100
RY160
470
A_TV2
LY101
TLN3278GH
LY102
2.2
LY103
2.2
Q172
KTC4075Y-RTK
GR175
OPEN
R173
10k
R174
27k
PIP_AFT
H002 MVUS51A
GND
IF IN
NC
+9V
RF AGC
SW1
VIDEO OUT
+5V
RESET
SW2
TV-R
ADR SEL(IF)
TV-L
ADR SEL(S)
R IN
PIP IN
L IN
SCL
SDA
W OUT
PIP OUT
L-OUT
R-OUT
C110
16V100u
H001 ELA52LX5
AGC
VI
ADR
SCL
SDA
NC
5V
NC
32V
NC
IF
C101
50V3.3
C102
10V220
D102
OPEN
C105
1000p
D101
OPEN
C103
OPEN
C106
50V4.7
C107
16V220
C109
25V0.1
C108
10V220
GJ103
OPEN
GJ105
SHORT
GJ104
OPEN
GJ106
OPEN
D898
D897
D896
D895
D894
MTZJ6.8A
L101
68u
G101
150
G102
150
L103
TRF4470AT
GR02
OPEN
GR103
SHORT
L104
OPEN
R_TV
L_TV
BLK GND
WHT SELECT
YEL +9V
SCL1
SDA1
3-D2
5V2
TUNER32V
9V1
1-B6
P105
SELECT Analog
GND
SELECT Digital
+9V
R152
10k
Q151
KTA2014Y
R151
5.6k
Q152
KTC4075Y-RTK
R150
3.3k
GJ150
OPEN
R155
OPEN
R154
OPEN
Q154
OPEN
Q153
OPEN
R153
OPEN
GJ151
OPEN
TP-12
1P
0.6
0J(TD)
V_TV
GND
RESET_MA
MAIN_AFT
R_TV
GND
L_TV
GND
R_AV
L_AV
GND
GND_A
L_APRO
GND_A
R_APRO

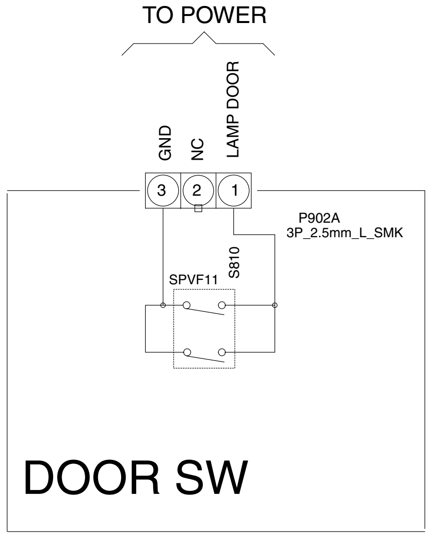
46HM84/52HM84/62HM84
IF AUDIO (2/3)
SHEET-2/3


Q601 AN7580
Q601C GREASE
Q601B SCREW
Q601A HEAT SINK (NEW)
Vcc
OUT-1(+)
GND-1
OUT-1(-)
Standby
IN-1
Pre GND
IN-2
MUTE
OUT-2(-)
GND-2
OUT-2(+)
P106
R_SPK(-)
R_SPK(+)
L_SPK(-)
L_SPK(+)
to SPEAKER
PLUG 4P
R_SPK
L_SPK
Q661 KTC2875B\2SC3326B
Q662 KTC2875B\2SC3326B
Q663 BA4558
Q664 RKA104S\RN2404
Q681 KTC2875B\2SC3326B
Q682 KTC2875B\2SC3326B
Q612 KTA2014Y\2SA1576AT106\2SA1586-Y
Q613 KTC4075Y\2SC4081\2SC4116Y
Q614 KRC106S\RN1406
L-VARI
R-VARI
L_APRO
R_APRO
REF
12V
5V-MUTE-ON
3-D2
GND_A
A_VCC
18V
11V
SP_MUTE
MUTE_A
MUTE_E
3-E6
3-C8
1-C3
2-D3
5V2
GND
A_MUTE
L_VARI
R_VARI
R697 1R560
R698 10k
R699 10k
C683 25V100
C684 25V47
D628 MA8120-M\MA8120-H\MA8120-L
D611 1SS355-TE17\MA111
D612
D613
D614 1SS355-TE17\MA111
D615 1SS355-TE17\MA111
D616 1SS355-TE17\MA111
D617 1SS355-TE17\MA111
R693 CHIP-JP
C680 35V2200

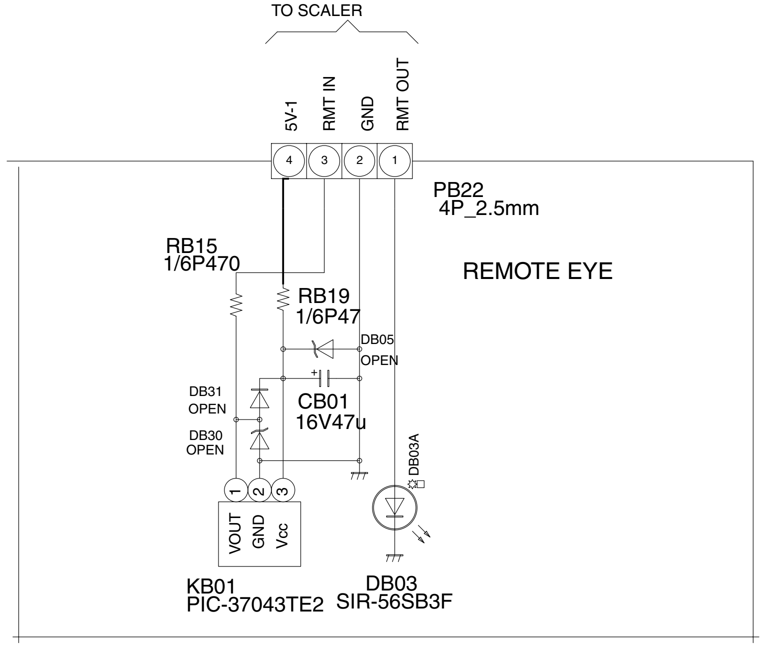
46HM84/52HM84/62HM84
IF AUDIO (3/3)
SHEET-3/3



BACK AV
DB-RST
GND
R
L
GND
V
GND
Y
GND
C
SW
11
10
9
8
7
6
5
4
3
2
1
PV60
PLUG 11P
RESET
S701
R
L /MONO
V
S
PV02
JACK 1S3P
RV20
1/6P75
CV13
16V10u
RV23
1/6P100
RV22
1/6P75
CV14
0.01
RV21
1/6P75
A
LV20
56
CV15
0.01
R
L
V
SW
C
R
L
V
Y
C
SW
FRONT AV

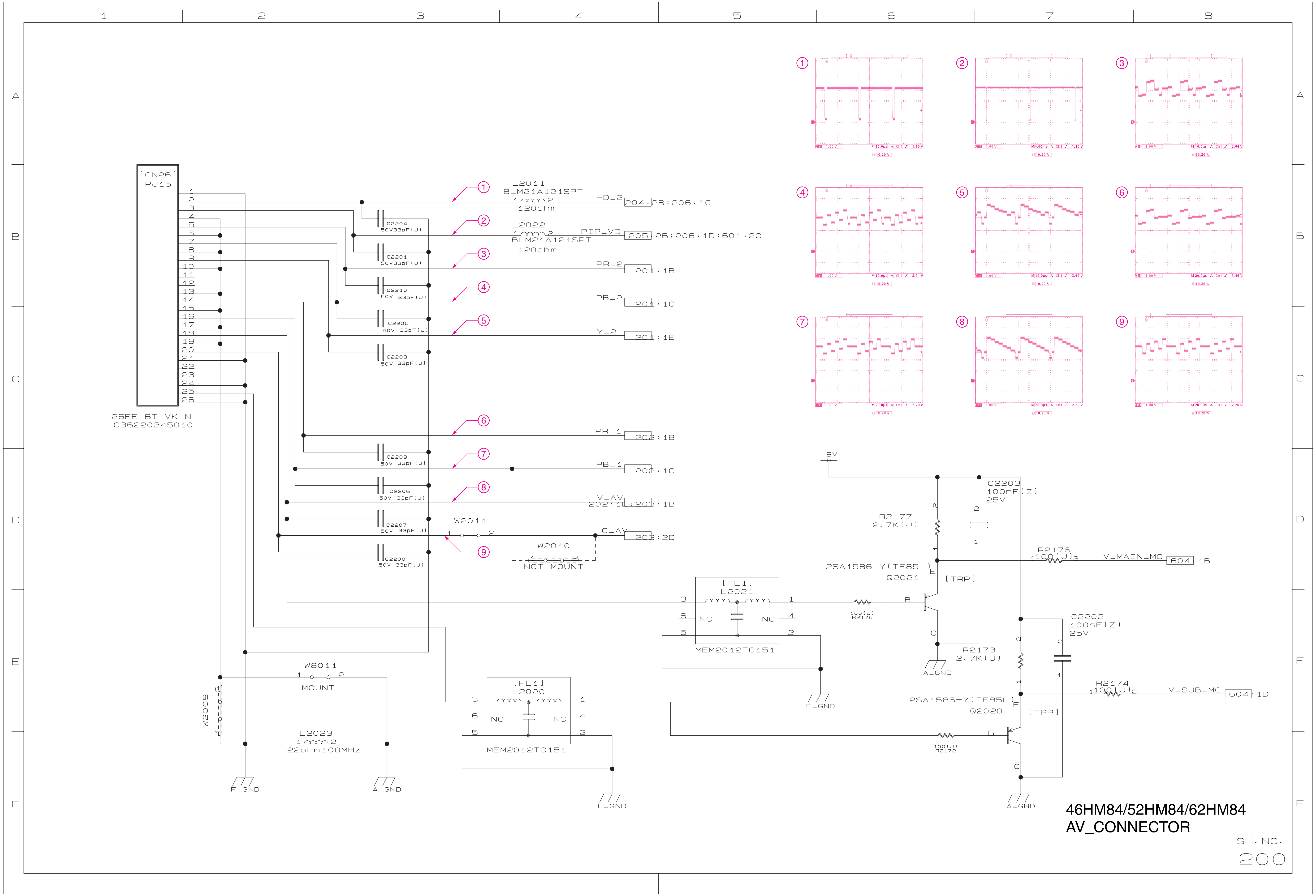


TO POWER
GND
NC
LAMP DOOR
3
2
1
P902A
3P_2.5mm_L_SMK
S810
SPVF11
DOOR SW



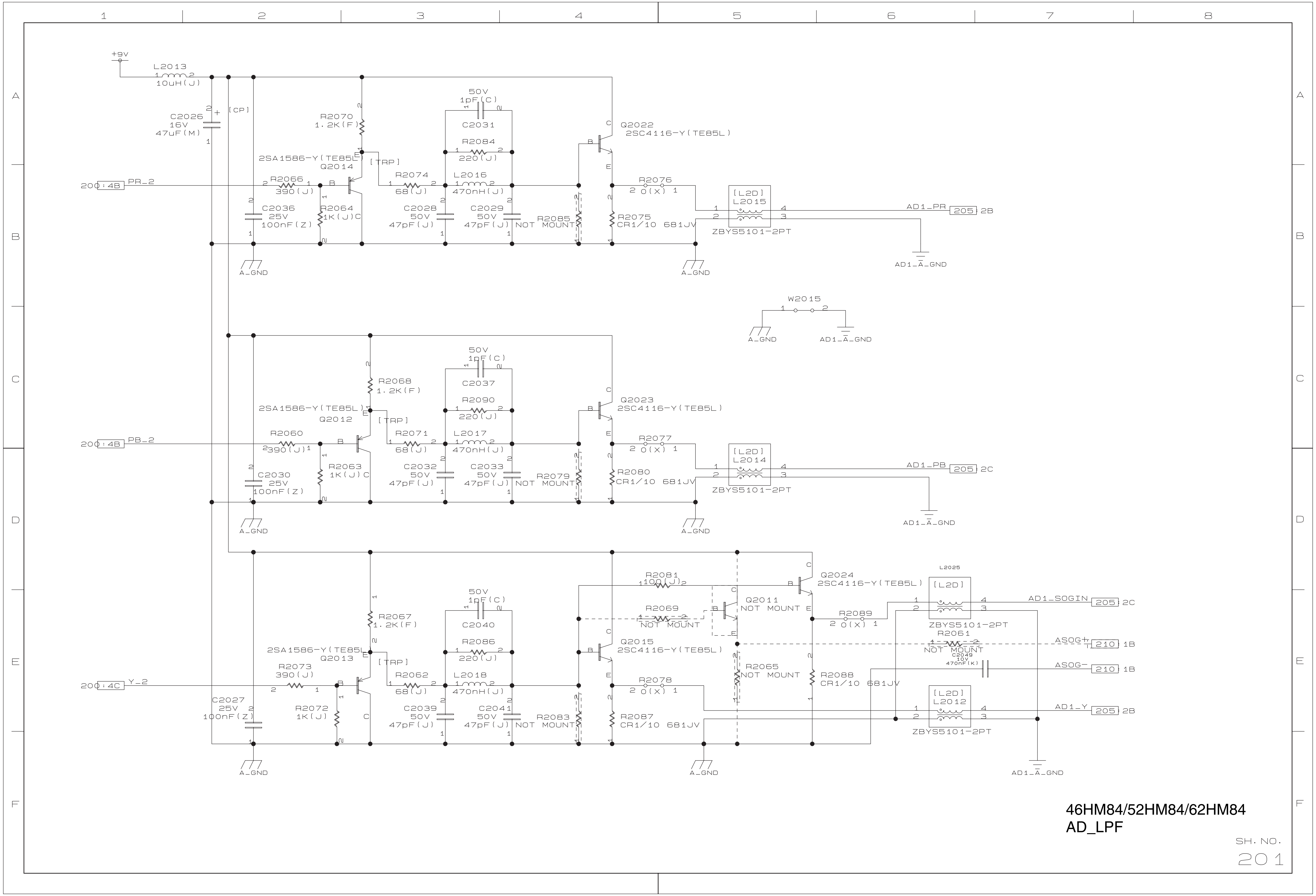
TO SCALER
5V-1
RMT IN
GND
RMT OUT
4
3
2
1
PB22
4P_2.5mm
REMOTE EYE
RB15
1/6P470
RB19
1/6P47
DB05
OPEN
DB31
OPEN
CB01
16V47u
DB30
OPEN
DB03A
1
2
3
VOUT
GND
Vcc
KB01
PIC-37043TE2
DB03
SIR-56SB3F

46HM84/52HM84/62HM84
F-AV


[CN26]
PJ16
26FE-BT-VK-N
G36220345010
L2011
BLM21A121SPT
120ohm
HD_2
204:2B:206:1C
L2022
BLM21A121SPT
120ohm
PIP_VD
205:2B:206:1D:601:2C
PR_2
201:1B
PB_2
201:1C
Y_2
201:1E
PR_1
202:1B
PB_1
202:1C
V_AV
202:1E:203:1B
C_AV
203:2D
C2204 50V33pF(J)
C2201 50V33pF(J)
C2210 50V 33pF(J)
C2205 50V 33pF(J)
C2208 50V 33pF(J)
C2209 50V 33pF(J)
C2206 50V 33pF(J)
C2207 50V 33pF(J)
C2200 50V 33pF(J)
W2011
W2010
NOT MOUNT
W8011
MOUNT
W2009
L2023
220hm 100MHz
F_GND
A_GND
[FL1]
L2021
MEM2012TC151
[FL1]
L2020
MEM2012TC151
NC
+9V
C2203
100nF(Z)
25V
R2177
2.7K(J)
2SA1586-Y(TE85L)
Q2021
[TRP]
R2176
100(J)
V_MAIN_MC
604:1B
R2175
100(J)
C2202
100nF(Z)
25V
R2173
2.7K(J)
R2174
100(J)
V_SUB_MC
604:1D
2SA1586-Y(TE85L)
Q2020
R2172
100(J)
①
②
③
④
⑤
⑥
⑦
⑧
⑨

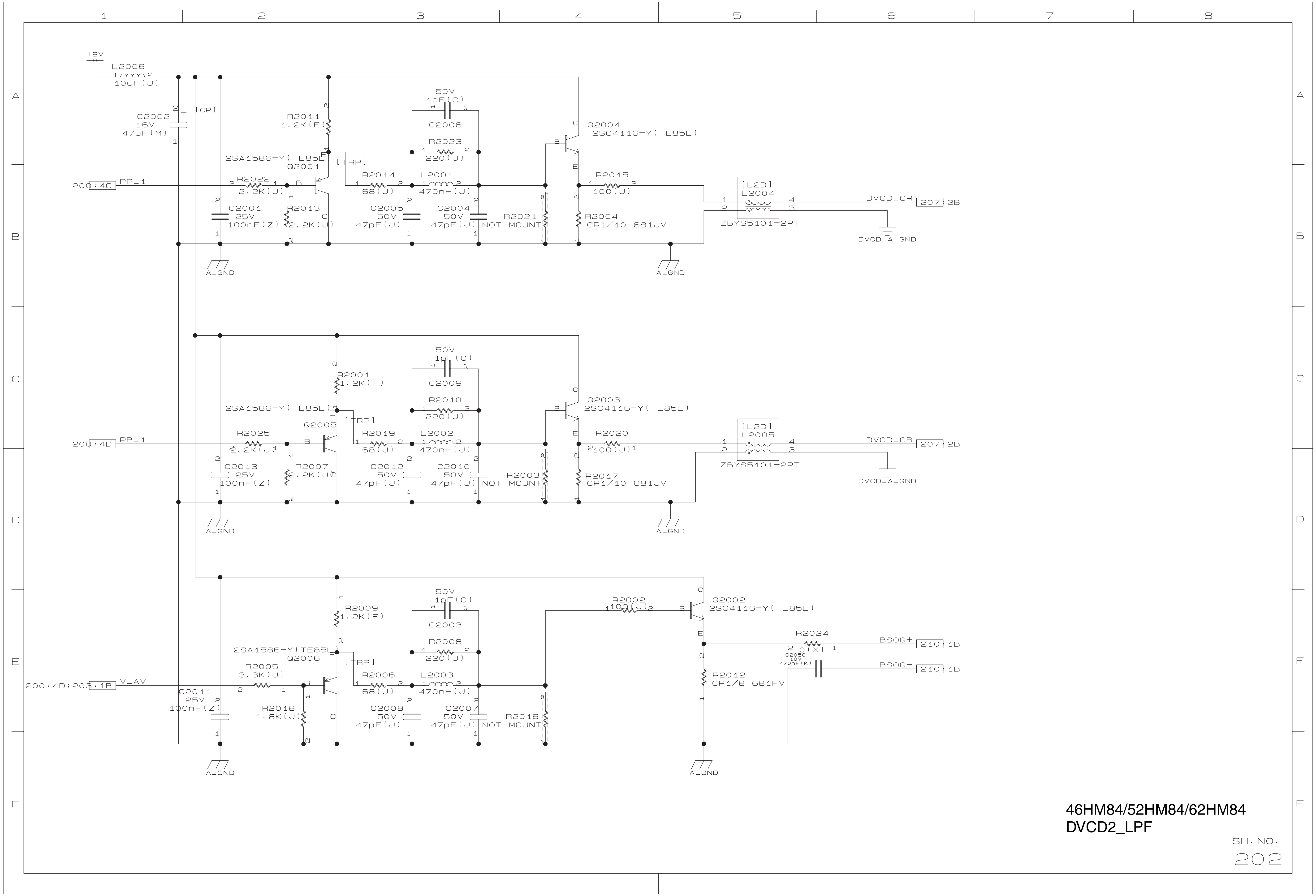
46HM84/52HM84/62HM84
AV_CONNECTOR

SH. NO.
200


+9V
L2013
10uH(J)
C2026
16V
47uF(M)
[CP]
R2070
1.2K(F)
2SA1586-Y(TE85L)
Q2014
[TRP]
50V
1pF(C)
C2031
R2084
220(J)
R2074
68(J)
L2016
470nH(J)
Q2022
2SC4116-Y(TE85L)
200 4B PR_2
R2066
390(J)
C2036
25V
100nF(Z)
R2064
1K(J)C
C2028
50V
47pF(J)
C2029
50V
47pF(J)
R2085
NOT MOUNT
R2076
0(X)
R2075
CR1/10 681JV
[L2D]
L2015
ZBYS5101-2PT
AD1_PR
205 2B
A_GND
AD1_A_GND
W2015
R2068
1.2K(F)
2SA1586-Y(TE85L)
Q2012
[TRP]
C2037
R2090
220(J)
R2071
68(J)
L2017
470nH(J)
Q2023
2SC4116-Y(TE85L)
200 4B PB_2
R2060
390(J)
C2030
25V
100nF(Z)
R2063
1K(J)C
C2032
50V
47pF(J)
C2033
50V
47pF(J)
R2079
NOT MOUNT
R2077
0(X)
R2080
CR1/10 681JV
[L2D]
L2014
ZBYS5101-2PT
AD1_PB
205 2C
R2067
1.2K(F)
2SA1586-Y(TE85L)
Q2013
[TRP]
C2040
R2086
220(J)
R2062
68(J)
L2018
470nH(J)
200 4C Y_2
R2073
390(J)
C2027
25V
100nF(Z)
R2072
1K(J)
C2039
50V
47pF(J)
C2041
50V
47pF(J)
R2083
NOT MOUNT
R2081
100(J)
R2069
NOT MOUNT
Q2011
NOT MOUNT
Q2015
2SC4116-Y(TE85L)
Q2024
2SC4116-Y(TE85L)
R2078
0(X)
R2087
CR1/10 681JV
R2065
NOT MOUNT
R2088
CR1/10 681JV
R2089
0(X)
L2025
[L2D]
ZBYS5101-2PT
AD1_SOGIN
205 2C
R2061
NOT MOUNT
C2049
10V
470nF(K)
ASOG+
210 1B
ASOG-
210 1B
[L2D]
L2012
ZBYS5101-2PT
AD1_Y
205 2B

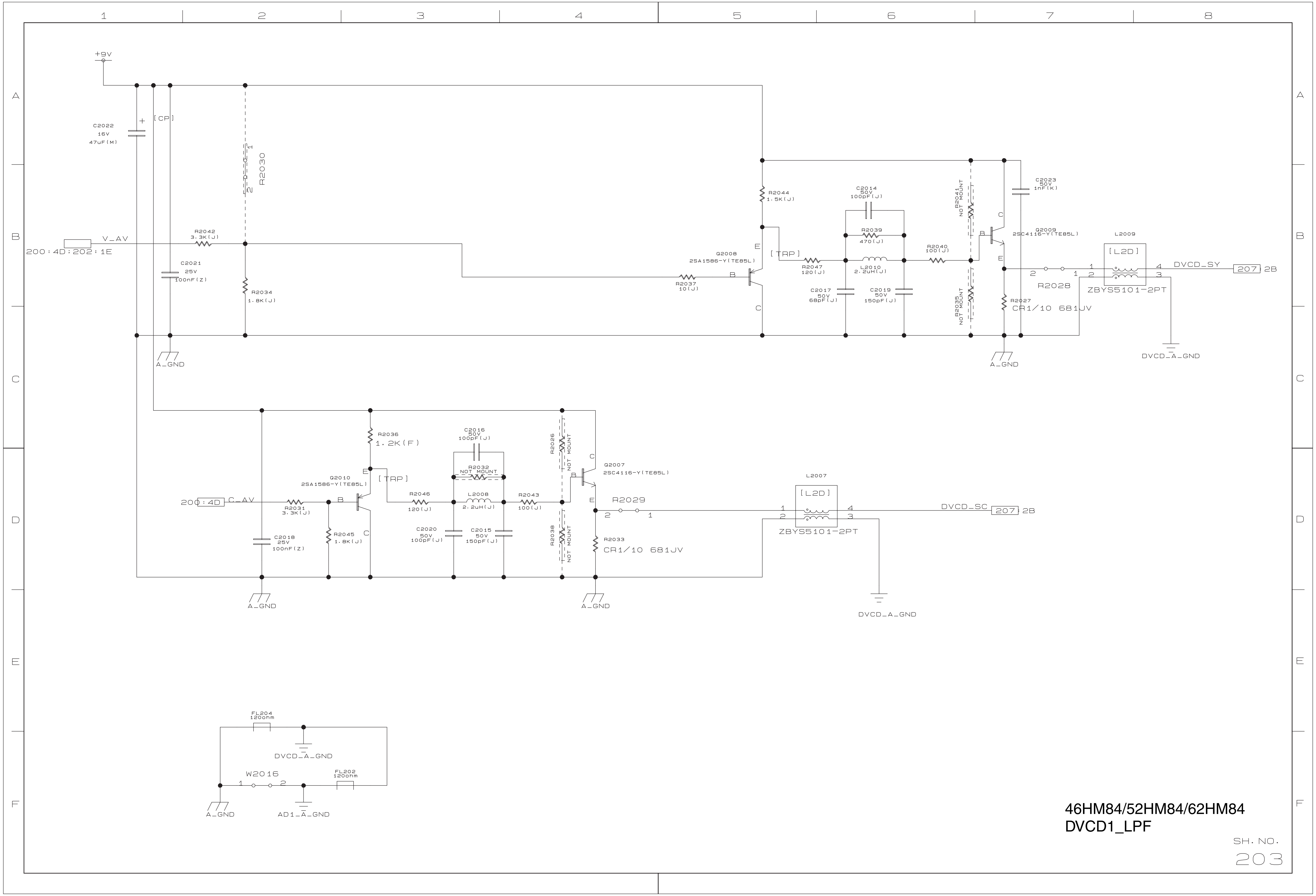
46HM84/52HM84/62HM84
AD_LPF

SH. NO.
201


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+9V
L2006
10uH(J)
C2002
16V
47uF(M)
[CP]
R2011
1.2K(F)
50V
1pF(C)
C2006
R2023
220(J)
Q2004
2SC4116-Y(TE85L)
2SA1586-Y(TE85L)
[TRP]
Q2001
200:4C
PR_1
R2022
2.2K(J)
R2014
68(J)
L2001
470nH(J)
R2015
100(J)
[L2D]
L2004
DVCD_CR
207:2B
C2001
25V
100nF(Z)
R2013
2.2K(J)
C2005
50V
47pF(J)
C2004
50V
47pF(J)
R2021
NOT MOUNT
R2004
CR1/10 681JV
ZBYS5101-2PT
DVCD_A_GND
A_GND
R2001
1.2K(F)
50V
1pF(C)
C2009
R2010
220(J)
Q2003
2SC4116-Y(TE85L)
2SA1586-Y(TE85L)
[TRP]
Q2005
200:4D
PB_1
R2025
2.2K(J)
R2019
68(J)
L2002
470nH(J)
R2020
100(J)
[L2D]
L2005
DVCD_CB
207:2B
C2013
25V
100nF(Z)
R2007
2.2K(J)
C2012
50V
47pF(J)
C2010
50V
47pF(J)
R2003
NOT MOUNT
R2017
CR1/10 681JV
ZBYS5101-2PT
DVCD_A_GND
A_GND
R2009
1.2K(F)
50V
1pF(C)
C2003
R2008
220(J)
R2002
100(J)
Q2002
2SC4116-Y(TE85L)
2SA1586-Y(TE85L)
Q2006
[TRP]
R2005
3.3K(J)
R2006
68(J)
L2003
470nH(J)
R2024
0(X)
BSOG+
210:1B
C2050
10V
470nF(K)
BSOG-
210:1B
200:4D:203:1B
V_AV
C2011
25V
100nF(Z)
R2018
1.8K(J)
C2008
50V
47pF(J)
C2007
50V
47pF(J)
R2016
NOT MOUNT
R2012
CR1/8 681FV
A_GND

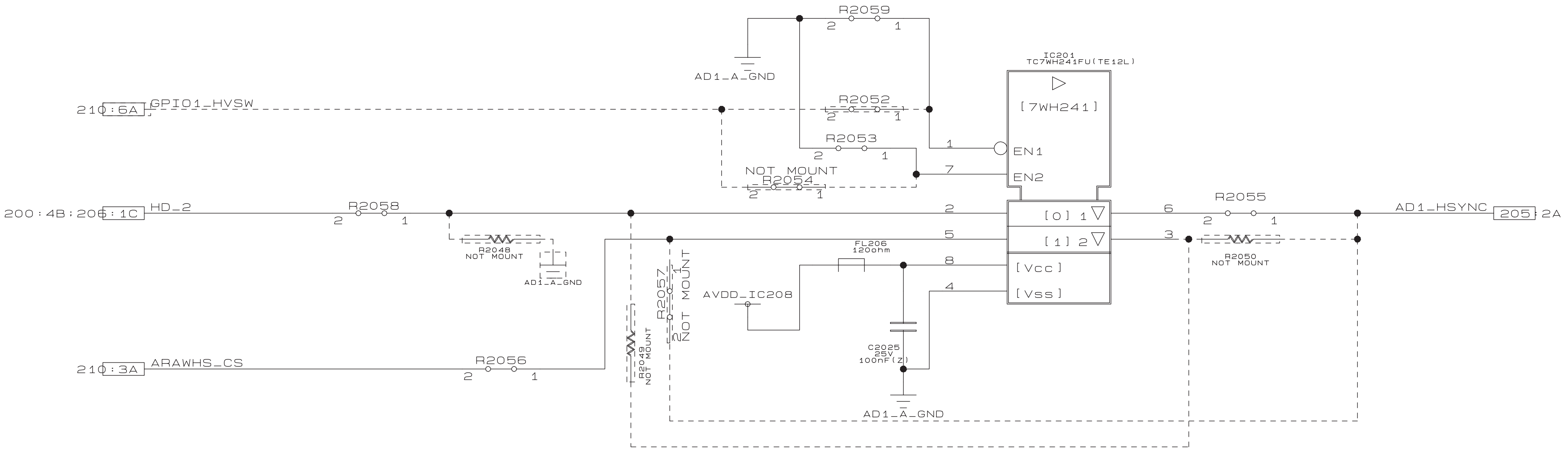
46HM84/52HM84/62HM84
DVCD2_LPF

SH. NO.
202


+9V
C2022
16V
47uF(M)
[CP]
R2030
200:4D:202:1E
V_AV
R2042
3.3K(J)
C2021
25V
100nF(Z)
R2034
1.8K(J)
A_GND
Q2008
2SA1586-Y(TE85L)
R2037
10(J)
R2044
1.5K(J)
[TRP]
R2047
120(J)
C2014
50V
100pF(J)
R2039
470(J)
L2010
2.2uH(J)
C2017
50V
68pF(J)
C2019
50V
150pF(J)
R2040
100(J)
R2041
NOT MOUNT
R2035
NOT MOUNT
C2023
50V
1nF(K)
Q2009
2SC4116-Y(TE85L)
R2027
CR1/10 681JV
R2028
L2009
[L2D]
ZBYS5101-2PT
DVCD_SY
207:2B
DVCD_A_GND
200:4D
C_AV
R2031
3.3K(J)
C2018
25V
100nF(Z)
R2045
1.8K(J)
Q2010
2SA1586-Y(TE85L)
R2036
1.2K(F)
[TRP]
R2046
120(J)
C2016
50V
100pF(J)
R2032
NOT MOUNT
L2008
2.2uH(J)
C2020
50V
100pF(J)
C2015
50V
150pF(J)
R2043
100(J)
R2026
NOT MOUNT
R2038
NOT MOUNT
Q2007
2SC4116-Y(TE85L)
R2029
R2033
CR1/10 681JV
L2007
[L2D]
ZBYS5101-2PT
DVCD_SC
207:2B
DVCD_A_GND
A_GND
FL204
120ohm
DVCD_A_GND
W2016
FL202
120ohm
A_GND
AD1_A_GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

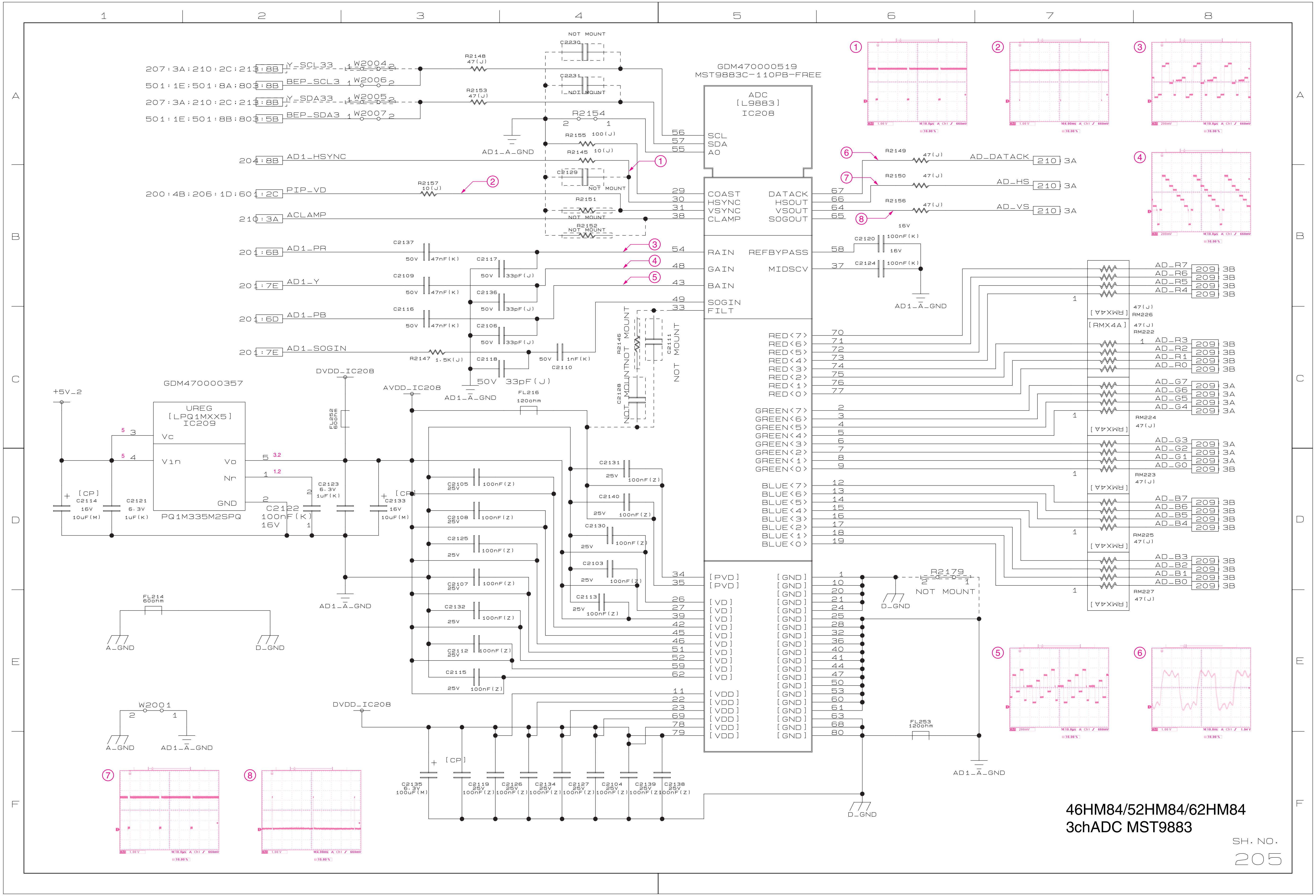
46HM84/52HM84/62HM84
DVCD1_LPF

SH. NO.
203


R2059
2
1
AD1_A_GND
IC201
TC7WH241FU(TE12L)
[7WH241]
R2052
2
1
210:6A
GPIO1_HVSW
R2053
2
1
1
EN1
7
EN2
NOT MOUNT
R2054
2
1
200:4B:206:1C
HD_2
R2058
2
1
2
[0] 1
6
R2055
2
1
AD1_HSYNC
205:2A
5
[1] 2
3
R2048
NOT MOUNT
AD1_A_GND
R2050
NOT MOUNT
FL206
120ohm
8
[Vcc]
4
[Vss]
AVDD_IC208
R2057
NOT MOUNT
2
1
NOT MOUNT
R2049
NOT MOUNT
C2025
25V
100nF(Z)
210:3A
ARAWHS_CS
R2056
2
1
AD1_A_GND

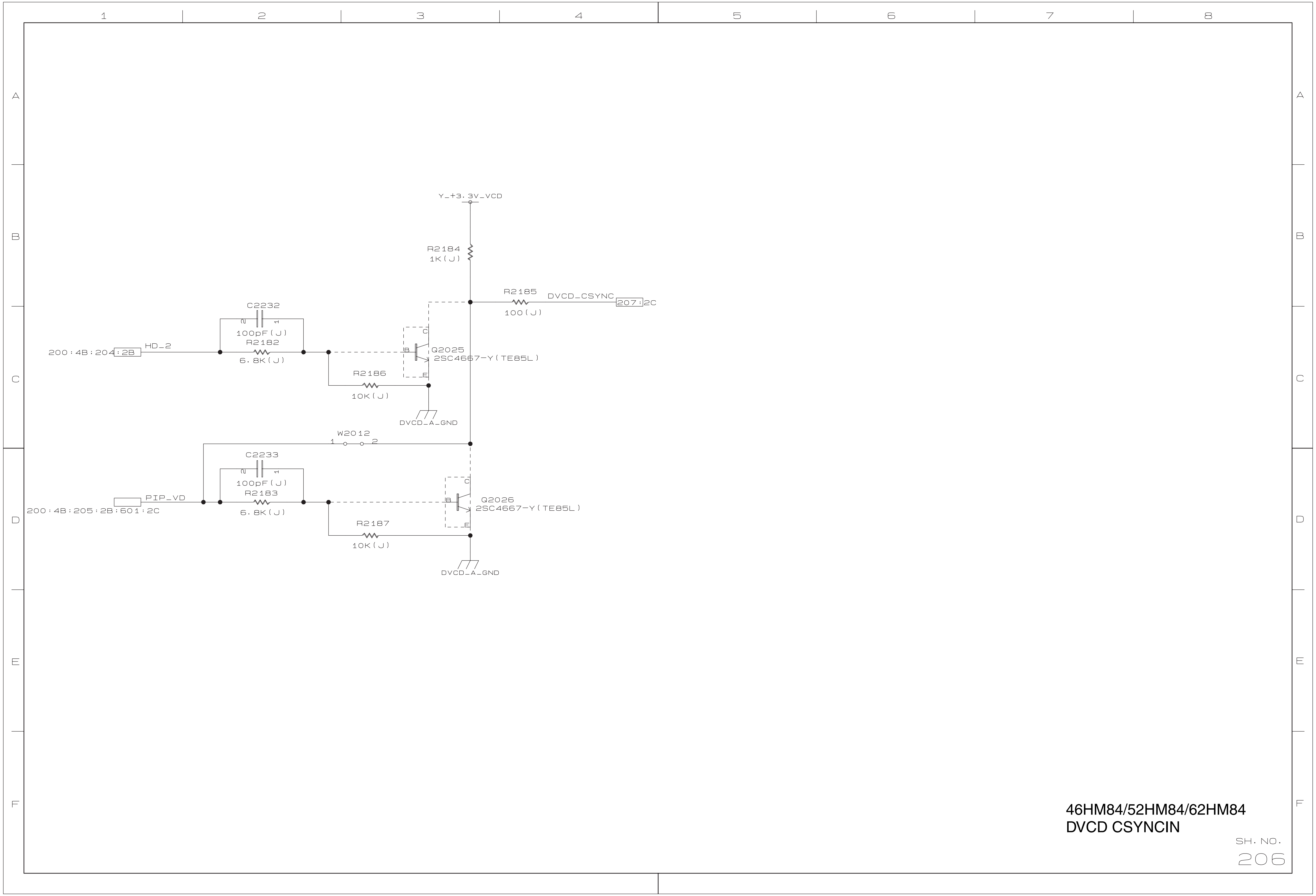
46HM84/52HM84/62HM84
3chADC HD

SH. NO.
204


GDM470000519
MST9883C-110PB-FREE
ADC
[L9883]
IC208
GDM470000357
UREG
[LPQ1MXX5]
IC209
PQ1M335M2SPQ
207:3A:210:2C:213:8B
501:1E:501:8A:803:8B
207:3A:210:2C:213:8B
501:1E:501:8B:803:5B
Y-SCL33
BEP-SCL3
Y-SDA33
BEP-SDA3
W2004
W2006
W2005
W2007
204:8B
AD1-HSYNC
200:4B:206:1D:601:2C
PIP-VD
210:3A
ACLAMP
201:6B
AD1-PR
201:7E
AD1-Y
201:6D
AD1-PB
201:7E
AD1-SOGIN
SCL
SDA
A0
COAST
HSYNC
VSYNC
CLAMP
DATACK
HSOUT
VSOUT
SOGOUT
RAIN
GAIN
BAIN
SOGIN
FILT
REFBYPASS
MIDSCV
RED<7>
RED<6>
RED<5>
RED<4>
RED<3>
RED<2>
RED<1>
RED<0>
GREEN<7>
GREEN<6>
GREEN<5>
GREEN<4>
GREEN<3>
GREEN<2>
GREEN<1>
GREEN<0>
BLUE<7>
BLUE<6>
BLUE<5>
BLUE<4>
BLUE<3>
BLUE<2>
BLUE<1>
BLUE<0>
[PVD]
[VD]
[VDD]
[GND]
AD_DATACK 210 3A
AD_HS 210 3A
AD_VS 210 3A
AD_R7
AD_R6
AD_R5
AD_R4
AD_R3
AD_R2
AD_R1
AD_R0
AD_G7
AD_G6
AD_G5
AD_G4
AD_G3
AD_G2
AD_G1
AD_G0
AD_B7
AD_B6
AD_B5
AD_B4
AD_B3
AD_B2
AD_B1
AD_B0
RM226
RM222
RM224
RM223
RM225
RM227
[RMX4A]
47(J)
R2148
R2153
R2154
R2155
R2145
R2157
R2151
R2152
R2147
R2146
R2149
R2150
R2156
R2179
C2230
C2231
C2129
C2137
C2117
C2109
C2136
C2116
C2106
C2118
C2110
C2111
C2128
C2120
C2124
C2131
C2140
C2130
C2103
C2113
C2105
C2108
C2125
C2107
C2132
C2112
C2115
C2114
C2121
C2122
C2123
C2133
C2135
C2119
C2126
C2134
C2127
C2104
C2139
C2138
NOT MOUNT
+5V_2
DVDD_IC208
AVDD_IC208
FL252
FL216
FL214
FL253
W2001
AD1_A_GND
A_GND
D_GND
Vc
Vin
Vo
Nr
GND
[CP]
①
②
③
④
⑤
⑥
⑦
⑧

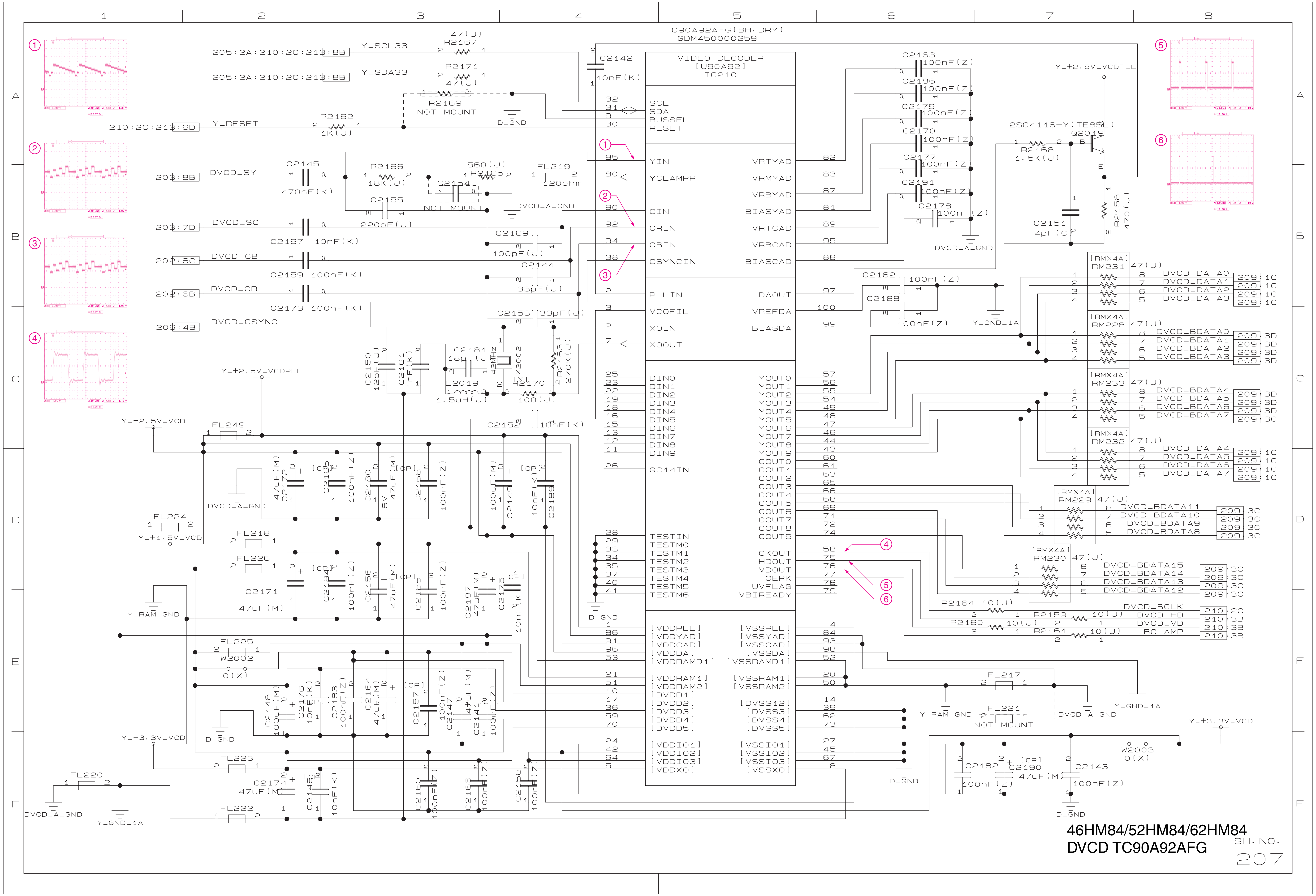
46HM84/52HM84/62HM84
3chADC MST9883

SH. NO.
205


1
2
3
4
5
6
7
8
A
B
C
D
E
F
Y_+3.3V_VCD
R2184
1K(J)
R2185
100(J)
DVCD_CSYNC
207:2C
C2232
100pF(J)
R2182
6.8K(J)
HD_2
200:4B:204:2B
Q2025
2SC4667-Y(TE85L)
R2186
10K(J)
DVCD_A_GND
W2012
C2233
100pF(J)
R2183
6.8K(J)
PIP_VD
200:4B:205:2B:601:2C
Q2026
2SC4667-Y(TE85L)
R2187
10K(J)
DVCD_A_GND
B
C
E

46HM84/52HM84/62HM84
DVCD CSYNCIN

SH. NO.
206


TC90A92AFG(BH,DRY)
GDM450000259
VIDEO DECODER
[U90A92]
IC210
SCL
SDA
BUSSEL
RESET
YIN
YCLAMPP
CIN
CRIN
CBIN
CSYNCIN
PLLIN
VCOFIL
XOIN
XOOUT
VRTYAD
VRMYAD
VRBYAD
BIASYAD
VRTCAD
VRBCAD
BIASCAD
DAOUT
VREFDA
BIASDA
DIN0
DIN1
DIN2
DIN3
DIN4
DIN5
DIN6
DIN7
DIN8
DIN9
GC14IN
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
YOUT8
YOUT9
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
COUT8
COUT9
CKOUT
HDOUT
VDOUT
OEPK
UVFLAG
VBIREADY
TESTIN
TESTM0
TESTM1
TESTM2
TESTM3
TESTM4
TESTM5
TESTM6
[VDDPLL]
[VDDYAD]
[VDDCAD]
[VDDDA]
[VDDRAMD1]
[VDDRAM1]
[VDDRAM2]
[DVDD1]
[DVDD2]
[DVDD3]
[DVDD4]
[DVDD5]
[VDDIO1]
[VDDIO2]
[VDDIO3]
[VDDXO]
[VSSPLL]
[VSSYAD]
[VSSCAD]
[VSSDA]
[VSSRAMD1]
[VSSRAM1]
[VSSRAM2]
[DVSS12]
[DVSS3]
[DVSS4]
[DVSS5]
[VSSIO1]
[VSSIO2]
[VSSIO3]
[VSSXO]
205:2A:210:2C:213:8B Y_SCL33
205:2A:210:2C:213:8B Y_SDA33
210:2C:213:6D Y_RESET
203:8B DVCD_SY
203:7D DVCD_SC
202:6C DVCD_CB
202:6B DVCD_CR
206:4B DVCD_CSYNC
R2167 47(J)
R2171 47(J)
R2169 NOT MOUNT
R2162 1K(J)
C2142 10nF(K)
C2145 470nF(K)
R2166 18K(J)
R2165 560(J)
FL219 120ohm
C2154 NOT MOUNT
C2155 220pF(J)
C2167 10nF(K)
C2169 100pF(J)
C2159 100nF(K)
C2144 33pF(J)
C2173 100nF(K)
C2153 33pF(J)
C2150 12pF(J)
C2161 1nF(K)
C2181 18pF(J)
X2002 42MHz
R2163 270K(J)
L2019 1.5uH(J)
R2170 100(J)
C2152 10nF(K)
Y_+2.5V_VCDPLL
Y_+2.5V_VCD
FL249
DVCD_A_GND
D_GND
C2163 100nF(Z)
C2186 100nF(Z)
C2179 100nF(Z)
C2170 100nF(Z)
C2177 100nF(Z)
C2191 100nF(Z)
C2178 100nF(Z)
C2162 100nF(Z)
C2188 100nF(Z)
Y_GND_1A
2SC4116-Y(TE85L)
Q2019
R2168 1.5K(J)
C2151 4pF(C)
R2158 470(J)
RM231 47(J)
RM228 47(J)
RM233 47(J)
RM232 47(J)
RM229 47(J)
RM230 47(J)
DVCD_DATA0
DVCD_DATA1
DVCD_DATA2
DVCD_DATA3
DVCD_BDATA0
DVCD_BDATA1
DVCD_BDATA2
DVCD_BDATA3
DVCD_BDATA4
DVCD_BDATA5
DVCD_BDATA6
DVCD_BDATA7
DVCD_DATA4
DVCD_DATA5
DVCD_DATA6
DVCD_DATA7
DVCD_BDATA11
DVCD_BDATA10
DVCD_BDATA9
DVCD_BDATA8
DVCD_BDATA15
DVCD_BDATA14
DVCD_BDATA13
DVCD_BDATA12
DVCD_BCLK
DVCD_HD
DVCD_VD
BCLAMP
R2164 10(J)
R2159 10(J)
R2160 10(J)
R2161 10(J)
FL224
Y_+1.5V_VCD
FL218
FL226
Y_RAM_GND
C2172 47uF(M)
C2165
C2180 6V 47uF(M)
C2168 100nF(Z)
C2149 100uF(M)
C2189 10nF(K)
C2171 47uF(M)
C2184 100nF(Z)
C2156 47uF(M)
C2185 100nF(Z)
C2187 47uF(M)
C2175 10nF(K)
FL225
W2002 0(X)
C2148 100uF(M)
C2176 10nF(K)
C2183 100nF(Z)
C2164 47uF(M)
C2157 100nF(Z)
C2147 47uF(M)
C2141 100nF(Z)
Y_+3.3V_VCD
FL223
FL220
FL222
C2174 47uF(M)
C2146 10nF(K)
C2160 100nF(Z)
C2166 100nF(Z)
C2158 100nF(Z)
FL217
FL221 NOT MOUNT
Y_+3.3V_VCD
W2003 0(X)
C2182 100nF(Z)
C2190 47uF(M)
C2143 100nF(Z)
①
②
③
④
⑤
⑥
1
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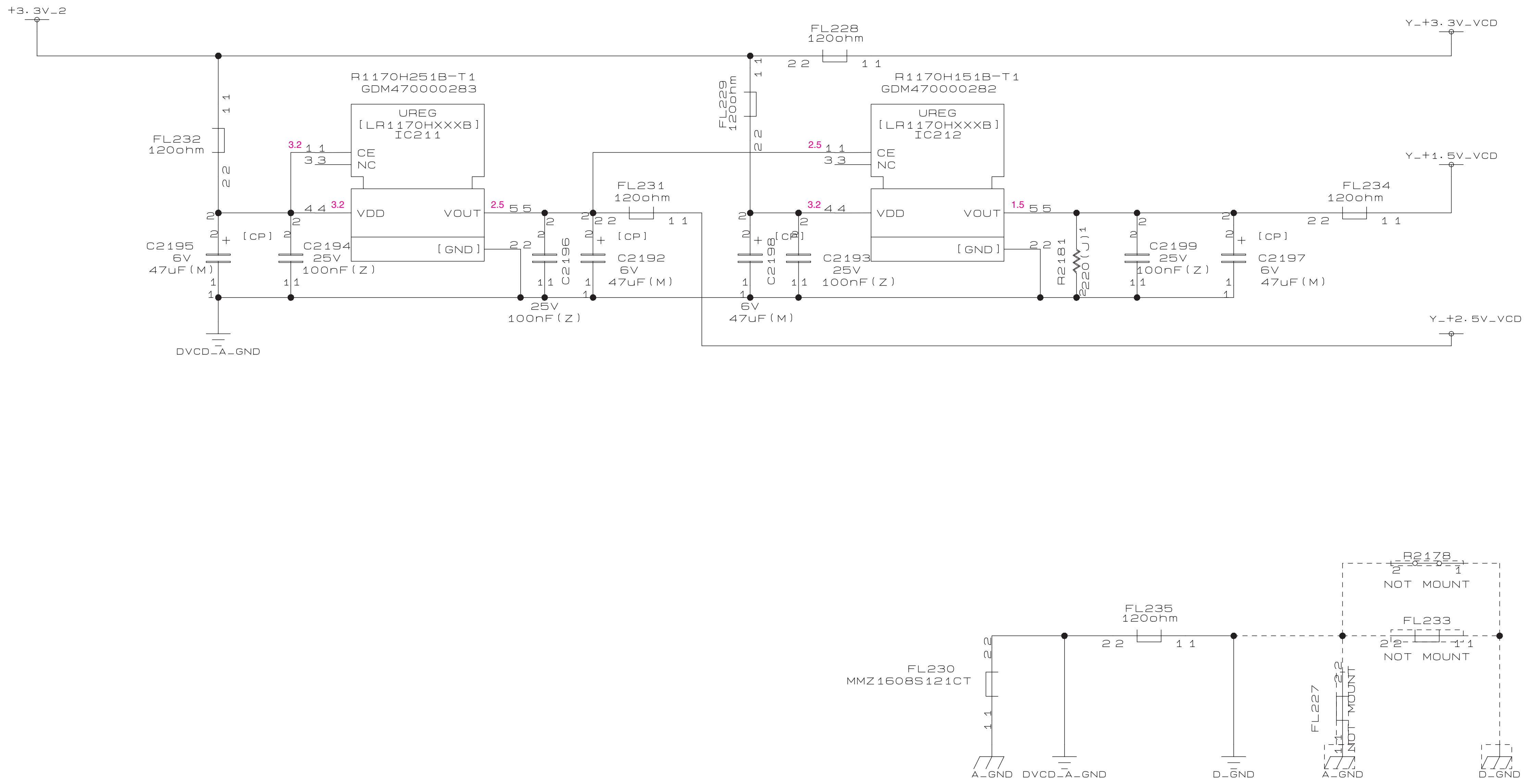
A
B
C
D
E
F

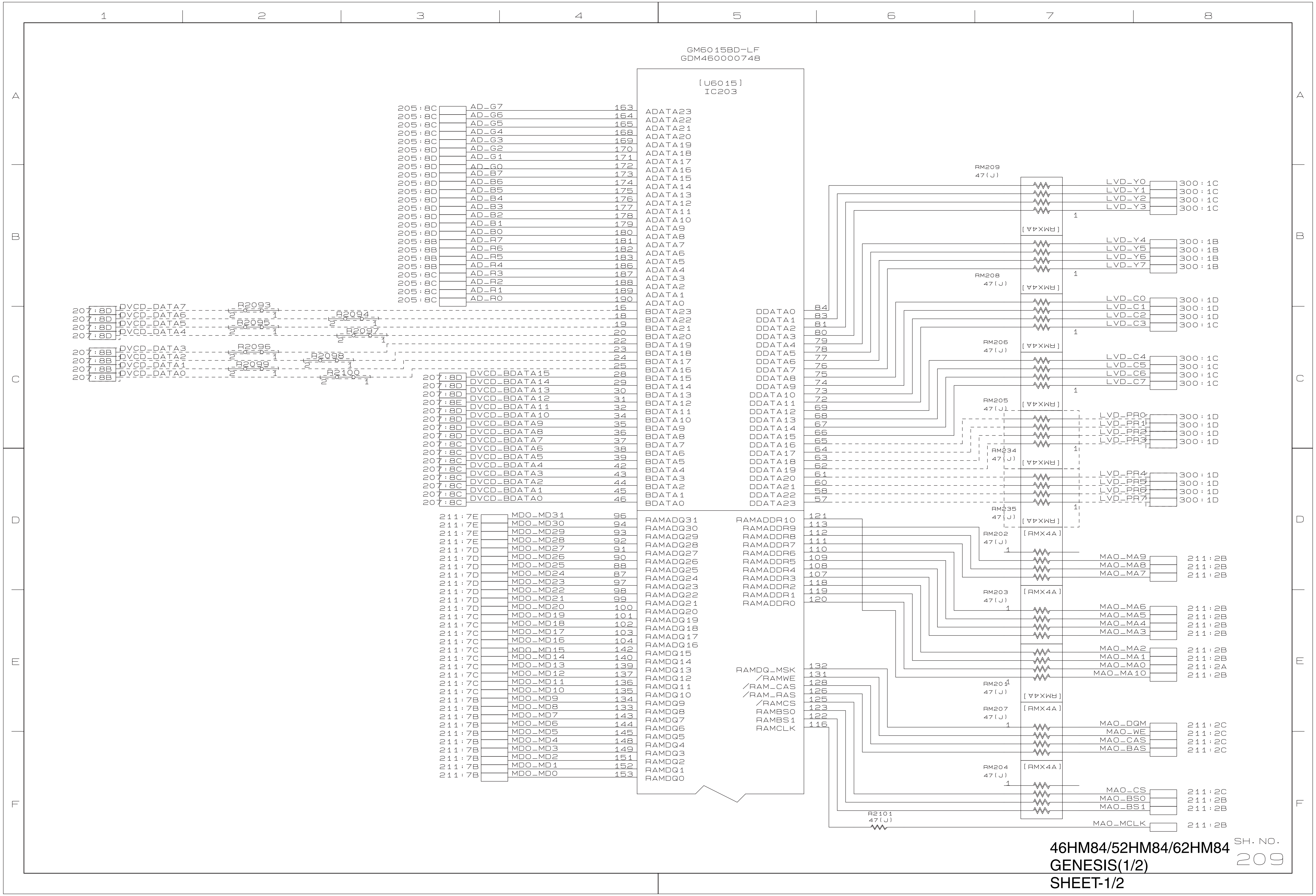
46HM84/52HM84/62HM84
DVCD TC90A92AFG

SH. NO.
207


+3.3V_2
FL232
120ohm
R1170H251B-T1
GDM470000283
UREG
[LR1170HXXXB]
IC211
CE
NC
VDD
VOUT
[GND]
3.2
3.2
2.5
[CP]
C2195
6V
47uF(M)
C2194
25V
100nF(Z)
C2196
25V
100nF(Z)
FL231
120ohm
[CP]
C2192
6V
47uF(M)
DVCD_A_GND
FL228
120ohm
FL229
120ohm
R1170H151B-T1
GDM470000282
UREG
[LR1170HXXXB]
IC212
CE
NC
VDD
VOUT
[GND]
2.5
3.2
1.5
[CP]
C2198
6V
47uF(M)
C2193
25V
100nF(Z)
R2181
220(J)
C2199
25V
100nF(Z)
[CP]
C2197
6V
47uF(M)
FL234
120ohm
Y_+3.3V_VCD
Y_+1.5V_VCD
Y_+2.5V_VCD
R2178
NOT MOUNT
FL235
120ohm
FL233
NOT MOUNT
FL230
MMZ1608S121CT
FL227
NOT MOUNT
A_GND
DVCD_A_GND
D_GND
A_GND
D_GND

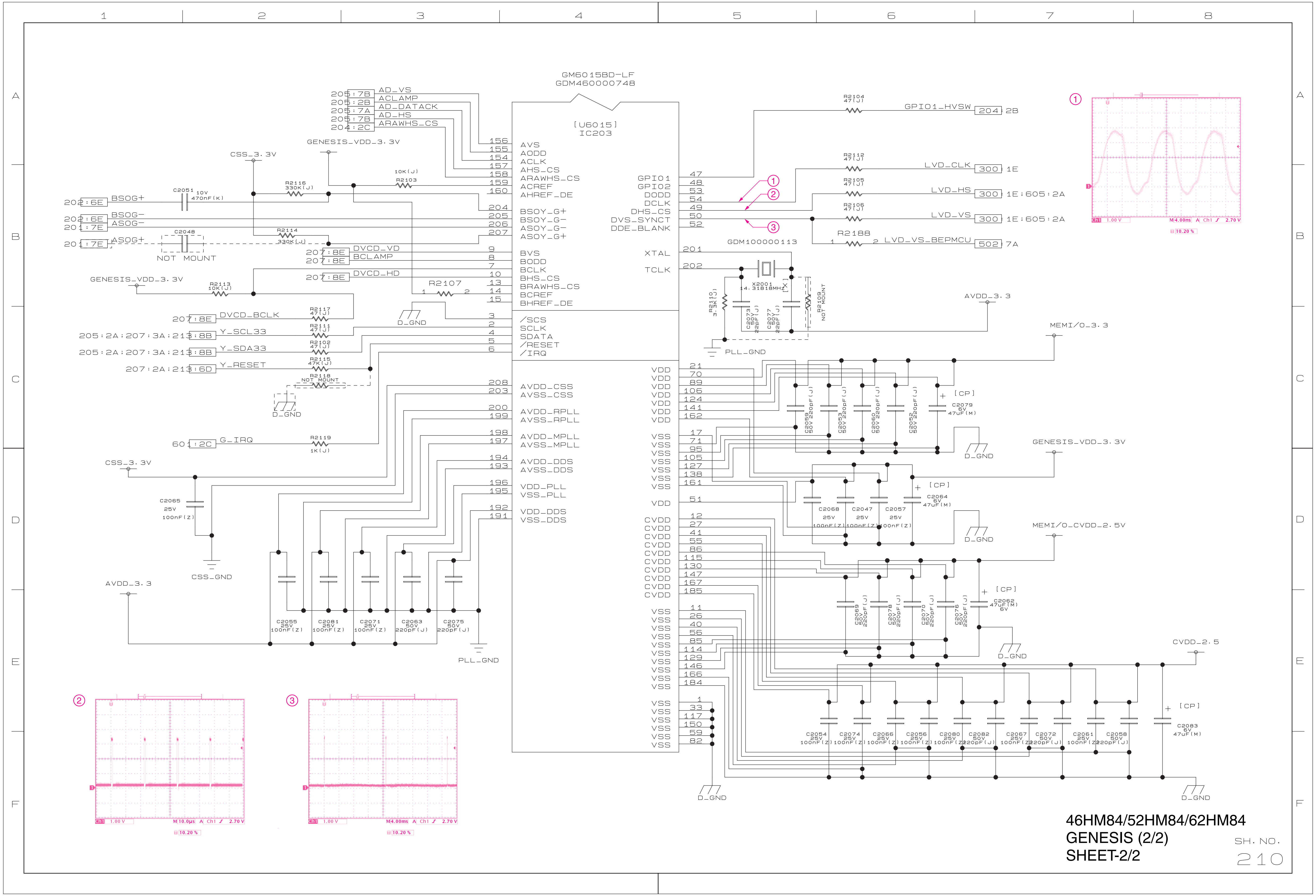
46HM84/52HM84/62HM84
DVCD POWER

SH. NO.
208


GM6015BD-LF
GDM460000748
[U6015]
IC203
ADATA23 … ADATA0
AD_G7 … AD_G0, AD_B7 … AD_B0, AD_R7 … AD_R0
205:8C
205:8D
205:8B
DVCD_DATA7 … DVCD_DATA0
207:8D
207:8B
R2093
R2094
R2095
R2097
R2096
R2098
R2099
R2100
BDATA23 … BDATA0
DVCD_BDATA15 … DVCD_BDATA0
207:8D
207:8E
207:8C
DDATA0 … DDATA23
RM209 47(J)
RM208 47(J)
RM206 47(J)
RM205 47(J)
RM234 47(J)
RM235 47(J)
[RMX4A]
LVD_Y0 … LVD_Y7
LVD_C0 … LVD_C7
LVD_PR0 … LVD_PR7
300:1C
300:1B
300:1D
MD0_MD31 … MD0_MD0
211:7E
211:7D
211:7C
211:7B
RAMADQ31 … RAMADQ16
RAMDQ15 … RAMDQ0
RAMADDR10 … RAMADDR0
RAMDQ_MSK
/RAMWE
/RAM_CAS
/RAM_RAS
/RAMCS
RAMBS0
RAMBS1
RAMCLK
RM202 47(J)
RM203 47(J)
RM201 47(J)
RM207 47(J)
RM204 47(J)
R2101 47(J)
MAO_MA9 … MAO_MA0, MAO_MA10
MAO_DQM
MAO_WE
MAO_CAS
MAO_BAS
MAO_CS
MAO_BS0
MAO_BS1
MAO_MCLK
211:2B
211:2A
211:2C
1 2 3 4 5 6 7 8
A B C D E F

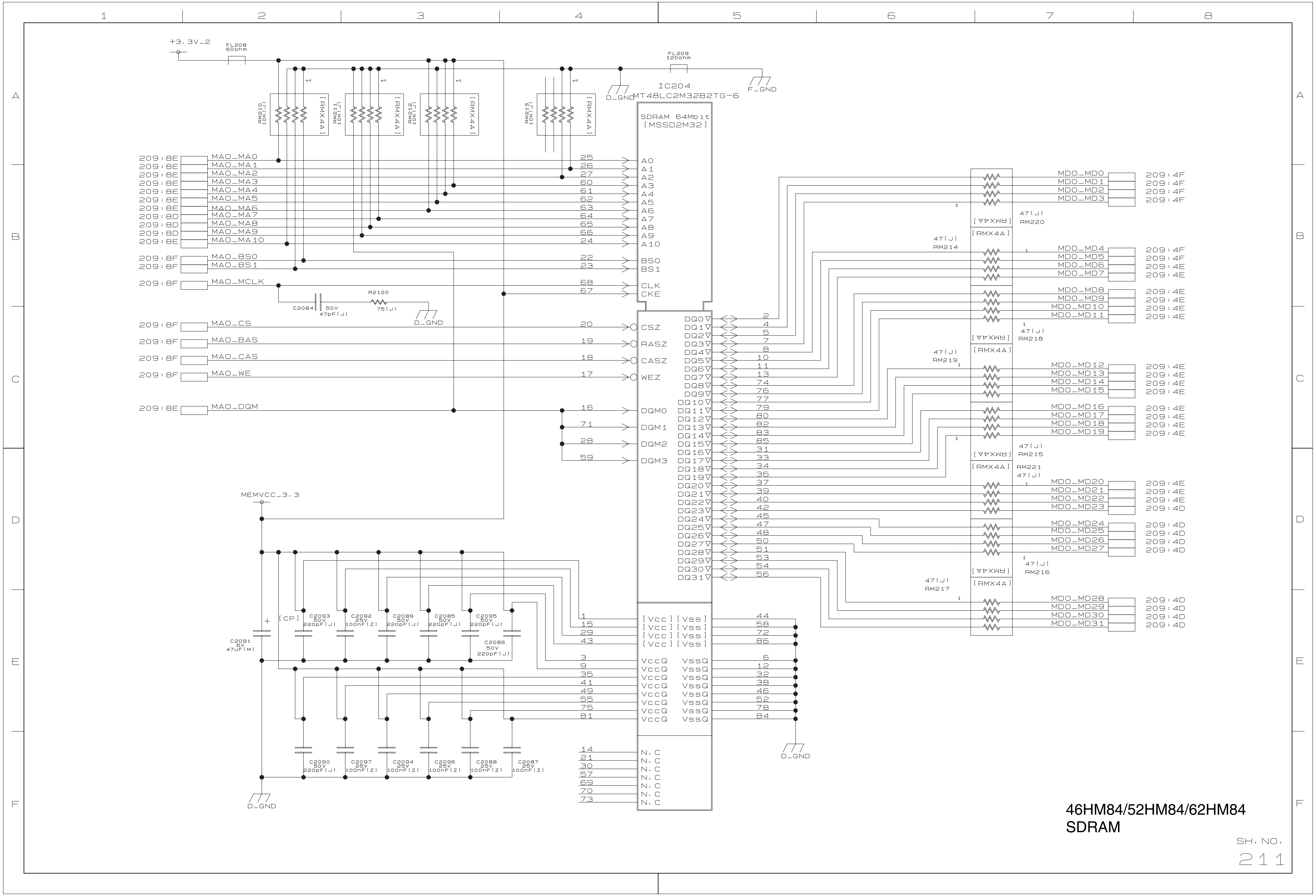
46HM84/52HM84/62HM84
GENESIS(1/2)
SHEET-1/2

SH. NO.
209


GM6015BD-LF
GDM460000748
[U6015]
IC203
AVS
AODD
ACLK
AHS_CS
ARAWHS_CS
ACREF
AHREF_DE
BSOY_G+
BSOY_G−
ASOY_G−
ASOY_G+
BVS
BODD
BCLK
BHS_CS
BRAWHS_CS
BCREF
BHREF_DE
/SCS
SCLK
SDATA
/RESET
/IRQ
AVDD_CSS
AVSS_CSS
AVDD_RPLL
AVSS_RPLL
AVDD_MPLL
AVSS_MPLL
AVDD_DDS
AVSS_DDS
VDD_PLL
VSS_PLL
VDD_DDS
VSS_DDS
GPIO1
GPIO2
DODD
DCLK
DHS_CS
DVS_SYNCT
DDE_BLANK
XTAL
TCLK
VDD
VSS
CVDD
205:7B AD_VS
205:2B ACLAMP
205:7A AD_DATACK
205:7B AD_HS
204:2C ARAWHS_CS
GENESIS_VDD_3.3V
CSS_3.3V
202:6E BSOG+
202:6E BSOG−
201:7E ASOG−
201:7E ASOG+
C2051 10V 470nF(K)
R2116 330K(J)
R2103 10K(J)
C2048
R2114 330K(J)
NOT MOUNT
207:8E DVCD_VD
207:8E BCLAMP
207:8E DVCD_HD
R2113 10K(J)
R2107
D_GND
207:8E DVCD_BCLK
205:2A:207:3A:213:8B Y_SCL33
205:2A:207:3A:213:8B Y_SDA33
207:2A:213:6D Y_RESET
R2117 47(J)
R2111 47(J)
R2102 47(J)
R2115 47K(J)
R2118 NOT MOUNT
601:2C G_IRQ
R2119 1K(J)
C2065 25V 100nF(Z)
CSS_GND
AVDD_3.3
C2055 25V 100nF(Z)
C2081 25V 100nF(Z)
C2071 25V 100nF(Z)
C2063 50V 220pF(J)
C2075 50V 220pF(J)
PLL_GND
R2104 47(J) GPIO1_HVSW 204 2B
R2112 47(J) LVD_CLK 300 1E
R2105 47(J) LVD_HS 300 1E:605:2A
R2106 47(J) LVD_VS 300 1E:605:2A
R2188 LVD_VS_BEPMCU 502 7A
GDM100000113
X2001 14.31818MHz
R2110 3.3K(J)
C2073 50V 22pF(J)
C2077 50V 22pF(J)
R2109 NOT MOUNT
PLL_GND
AVDD_3.3
MEMI/O_3.3
C2059 50V 220pF(J)
C2053 50V 220pF(J)
C2060 50V 220pF(J)
C2052 50V 220pF(J)
[CP] C2079 6V 47uF(M)
GENESIS_VDD_3.3V
C2068 25V 100nF(Z)
C2047 25V 100nF(Z)
C2057 25V 100nF(Z)
[CP] C2064 6V 47uF(M)
MEMI/O_CVDD_2.5V
C2069 50V 220pF(J)
C2078 50V 220pF(J)
C2070 50V 220pF(J)
C2076 50V 220pF(J)
[CP] C2062 47uF(M) 6V
CVDD_2.5
C2054 25V 100nF(Z)
C2074 25V 100nF(Z)
C2066 25V 100nF(Z)
C2056 25V 100nF(Z)
C2080 25V 100nF(Z)
C2082 50V 220pF(J)
C2067 25V 100nF(Z)
C2072 50V 220pF(J)
C2061 25V 100nF(Z)
C2058 50V 220pF(J)
[CP] C2083 6V 47uF(M)
①
②
③
Ch1 1.00 V M 4.00ms A Ch1 2.70 V
Ch1 1.00 V M 10.0μs A Ch1 2.70 V
10.20 %

46HM84/52HM84/62HM84
GENESIS (2/2)
SHEET-2/2

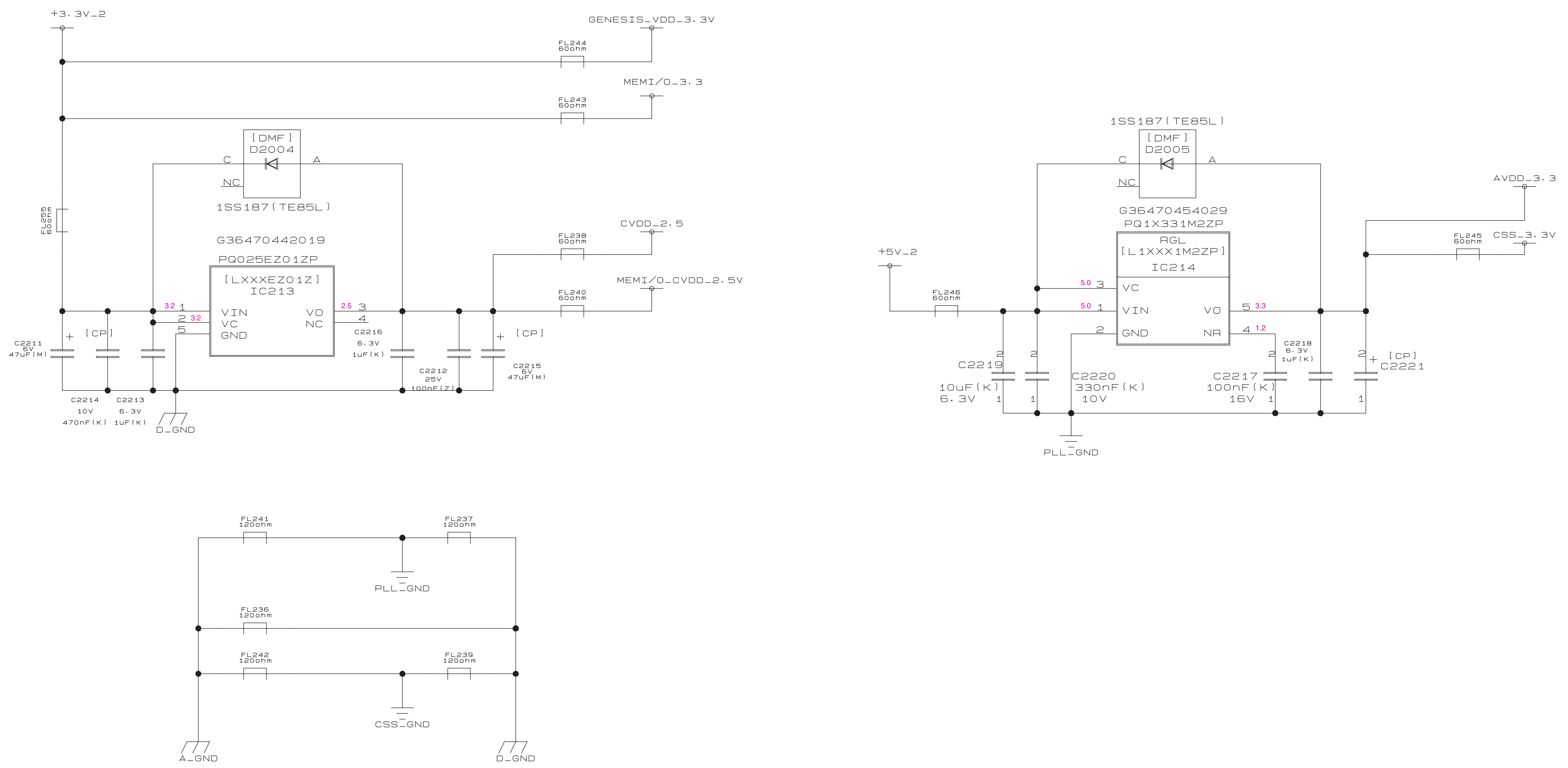
SH. NO.
210


+3.3V_2
FL208 60ohm
FL209 120ohm
D_GND
F_GND
IC204
MT48LC2M32B2TG-6
SDRAM 64Mbit
[MSSD2M32]
RM210 10K(J)
RM211 10K(J)
RM212 10K(J)
RM213 10K(J)
[RMX4A]
MA0_MA0
MA0_MA1
MA0_MA2
MA0_MA3
MA0_MA4
MA0_MA5
MA0_MA6
MA0_MA7
MA0_MA8
MA0_MA9
MA0_MA10
MA0_BS0
MA0_BS1
MA0_MCLK
MA0_CS
MA0_BAS
MA0_CAS
MA0_WE
MA0_DQM
209:8E
209:8D
209:8F
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
BS0
BS1
CLK
CKE
CSZ
RASZ
CASZ
WEZ
DQM0
DQM1
DQM2
DQM3
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
DQ16
DQ17
DQ18
DQ19
DQ20
DQ21
DQ22
DQ23
DQ24
DQ25
DQ26
DQ27
DQ28
DQ29
DQ30
DQ31
[Vcc]
[Vss]
VccQ
VssQ
N.C
C2084 50V 47pF(J)
R2120 75(J)
MEMVCC_3.3
[CP]
C2091 6V 47uF(M)
C2093 50V 220pF(J)
C2092 25V 100nF(Z)
C2089 50V 220pF(J)
C2085 50V 220pF(J)
C2095 50V 220pF(J)
C2086 50V 220pF(J)
C2090 50V 220pF(J)
C2097 25V 100nF(Z)
C2094 25V 100nF(Z)
C2096 25V 100nF(Z)
C2088 25V 100nF(Z)
C2087 25V 100nF(Z)
RM220 47(J)
RM214 47(J)
RM218 47(J)
RM219 47(J)
RM215 47(J)
RM221 47(J)
RM216 47(J)
RM217 47(J)
MD0_MD0
MD0_MD1
MD0_MD2
MD0_MD3
MD0_MD4
MD0_MD5
MD0_MD6
MD0_MD7
MD0_MD8
MD0_MD9
MD0_MD10
MD0_MD11
MD0_MD12
MD0_MD13
MD0_MD14
MD0_MD15
MD0_MD16
MD0_MD17
MD0_MD18
MD0_MD19
MD0_MD20
MD0_MD21
MD0_MD22
MD0_MD23
MD0_MD24
MD0_MD25
MD0_MD26
MD0_MD27
MD0_MD28
MD0_MD29
MD0_MD30
MD0_MD31
209:4F
209:4E
209:4D
1
2
3
4
5
6
7
8
A
B
C
D
E
F

46HM84/52HM84/62HM84
SDRAM

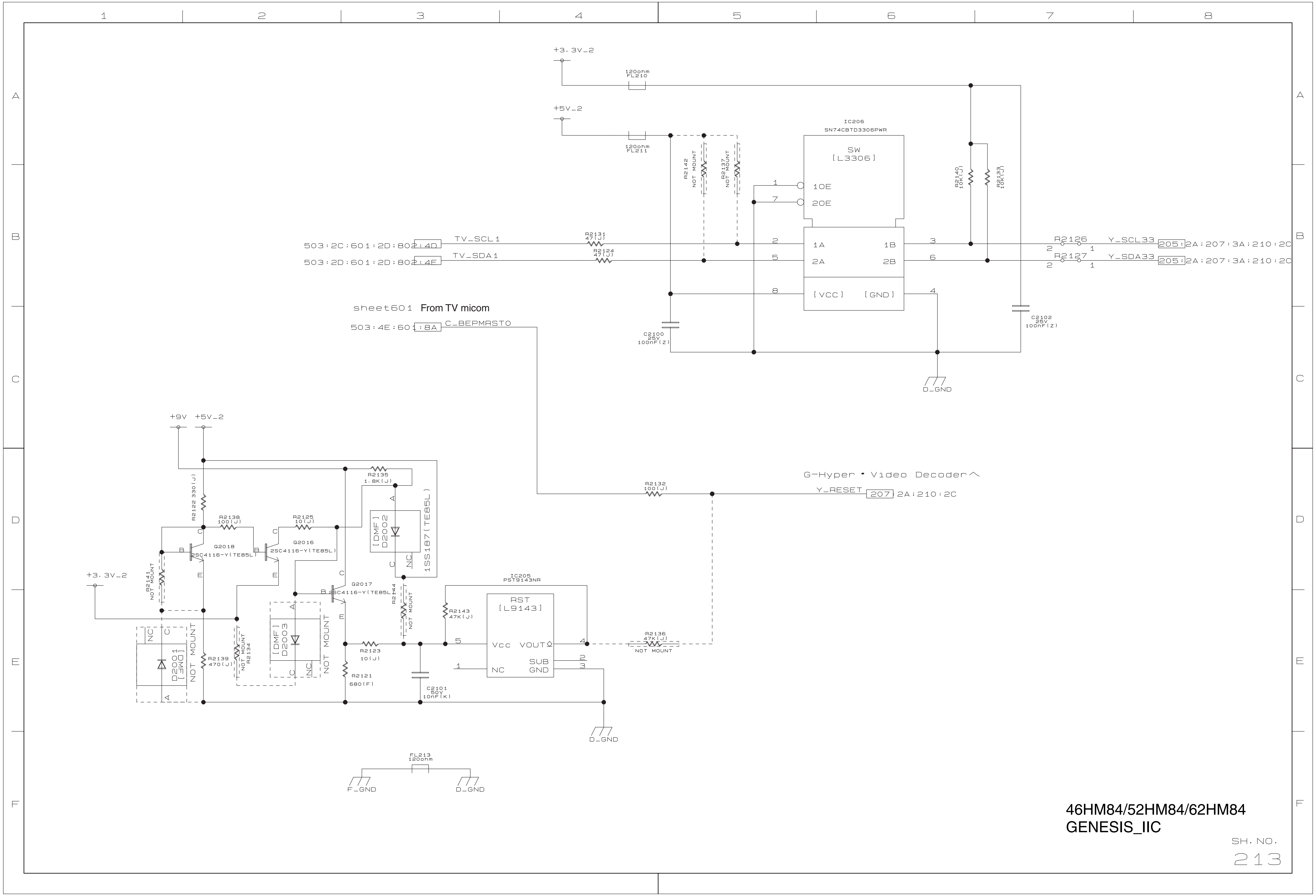
SH. NO.
211

(21/52)


+3.3V_2
GENESIS_VDD_3.3V
FL244
60ohm
MEMI/O_3.3
FL243
60ohm
[DMF]
D2004
C
A
NC
1SS187(TE85L)
FL255
60ohm
G36470442019
PQ025EZ01ZP
[LXXXEZ01Z]
IC213
3.2
1
2
3.2
5
VIN
VC
GND
VO
NC
2.5
3
4
CVDD_2.5
FL238
60ohm
MEMI/O_CVDD_2.5V
FL240
60ohm
C2211
6V
47uF(M)
[CP]
C2214
10V
470nF(K)
C2213
6.3V
1uF(K)
D_GND
C2216
6.3V
1uF(K)
C2212
25V
100nF(Z)
[CP]
C2215
6V
47uF(M)
1SS187(TE85L)
[DMF]
D2005
C
A
NC
G36470454029
PQ1X331M2ZP
RGL
[L1XXX1M2ZP]
IC214
+5V_2
FL246
60ohm
5.0
3
VC
5.0
1
VIN
2
GND
VO
5
3.3
NR
4
1.2
AVDD_3.3
FL245
60ohm
CSS_3.3V
C2219
10uF(K)
6.3V
C2220
330nF(K)
10V
C2217
100nF(K)
16V
C2218
6.3V
1uF(K)
[CP]
C2221
PLL_GND
FL241
120ohm
FL237
120ohm
PLL_GND
FL236
120ohm
FL242
120ohm
FL239
120ohm
CSS_GND
A_GND
D_GND

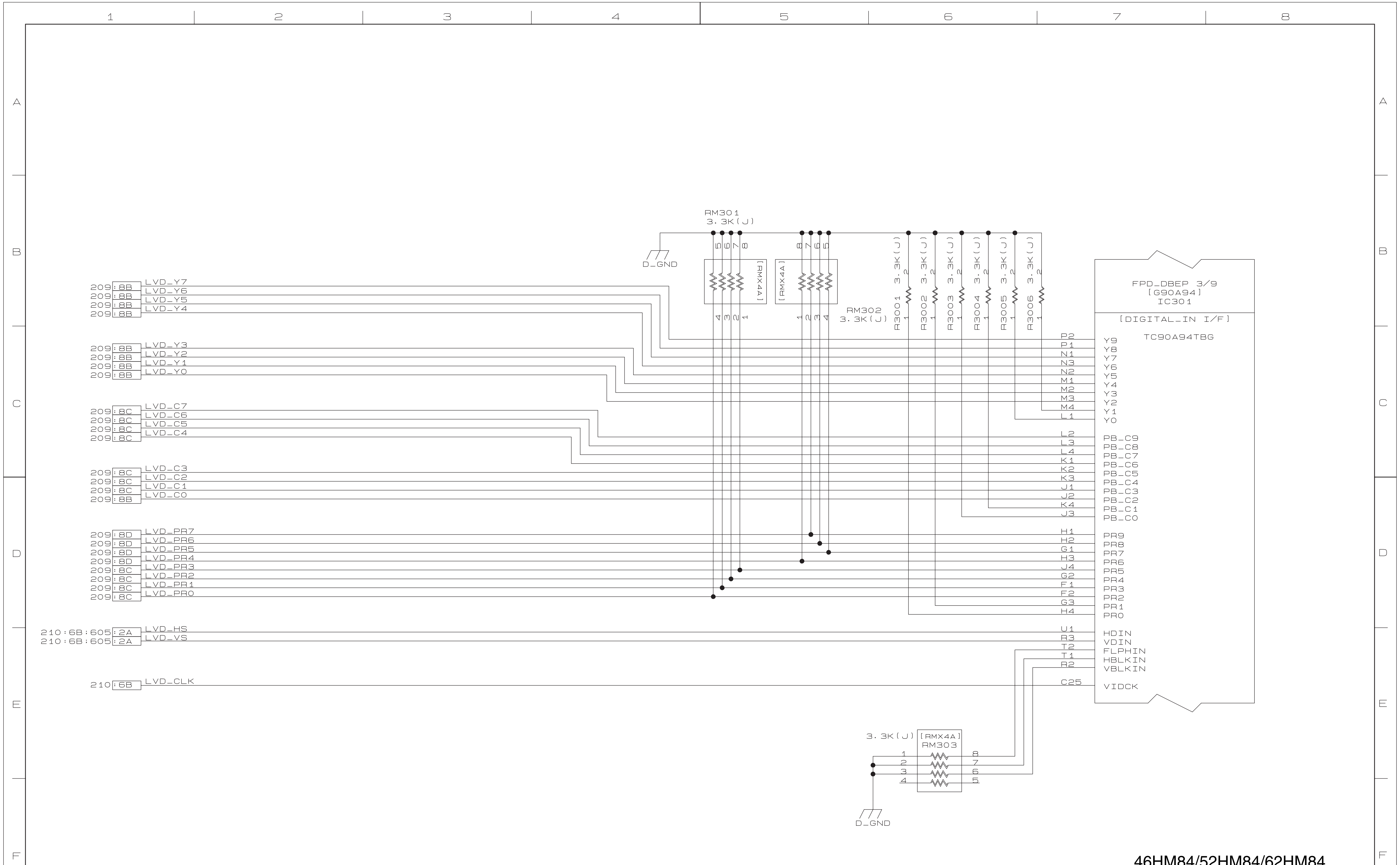
46HM84/52HM84/62HM84
GENESIS_POWER

SH. NO.
212


+3.3V_2
120ohm FL210
+5V_2
120ohm FL211
IC206
SN74CBTD3306PWR
SW
[L3306]
1OE
2OE
1A
2A
1B
2B
[VCC]
[GND]
R2142 NOT MOUNT
R2137 NOT MOUNT
R2140 10K(J)
R2133 10K(J)
TV_SCL1
TV_SDA1
503:2C:601:2D:802:4D
503:2D:601:2D:802:4E
R2131 47(J)
R2124 47(J)
R2126
R2127
Y_SCL33
Y_SDA33
205:2A:207:3A:210:2C
205:2A:207:3A:210:2C
C2100 25V 100nF(Z)
C2102 25V 100nF(Z)
D_GND
sheet601 From TV micom
503:4E:601:8A
C_BEPMRST0
+9V
+5V_2
+3.3V_2
R2122 330(J)
R2138 100(J)
R2125 10(J)
R2135 1.8K(J)
Q2018 2SC4116-Y(TE85L)
Q2016 2SC4116-Y(TE85L)
Q2017 2SC4116-Y(TE85L)
[DMF] D2002
1SS187(TE85L)
[DMF] D2001
[DMF] D2003
NOT MOUNT
R2141 NOT MOUNT
R2134 NOT MOUNT
R2144 NOT MOUNT
R2139 470(J)
R2123 10(J)
R2121 680(F)
C2101 50V 10nF(K)
R2143 47K(J)
IC205
PST9143NR
RST
[L9143]
Vcc
VOUT
NC
SUB
GND
R2136 47K(J) NOT MOUNT
R2132 100(J)
G-Hyper・Video Decoderへ
Y_RESET
207 2A:210:2C
FL213 120ohm
F_GND
D_GND

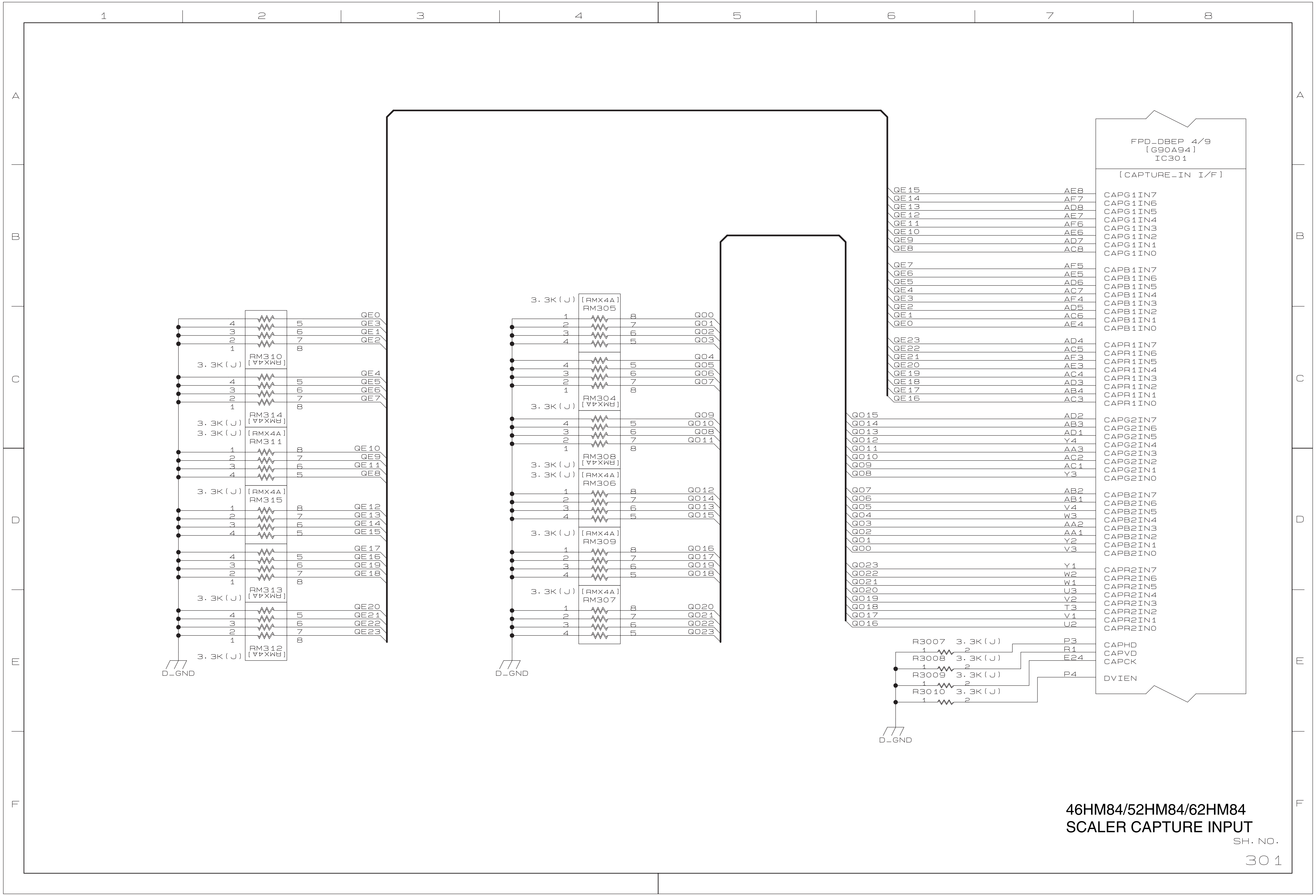
46HM84/52HM84/62HM84
GENESIS_IIC

SH. NO.
213


RM301
3.3K(J)
[RMX4A]
D_GND
RM302
3.3K(J)
R3001 3.3K(J)
R3002 3.3K(J)
R3003 3.3K(J)
R3004 3.3K(J)
R3005 3.3K(J)
R3006 3.3K(J)
FPD_DBEP 3/9
[G90A94]
IC301
[DIGITAL_IN I/F]
TC90A94TBG
209:8B LVD_Y7
209:8B LVD_Y6
209:8B LVD_Y5
209:8B LVD_Y4
209:8B LVD_Y3
209:8B LVD_Y2
209:8B LVD_Y1
209:8B LVD_Y0
209:8C LVD_C7
209:8C LVD_C6
209:8C LVD_C5
209:8C LVD_C4
209:8C LVD_C3
209:8C LVD_C2
209:8C LVD_C1
209:8B LVD_C0
209:8D LVD_PR7
209:8D LVD_PR6
209:8D LVD_PR5
209:8D LVD_PR4
209:8C LVD_PR3
209:8C LVD_PR2
209:8C LVD_PR1
209:8C LVD_PR0
210:6B:605:2A LVD_HS
210:6B:605:2A LVD_VS
210:6B LVD_CLK
P2 Y9
P1 Y8
N1 Y7
N3 Y6
N2 Y5
M1 Y4
M2 Y3
M3 Y2
M4 Y1
L1 Y0
L2 PB_C9
L3 PB_C8
L4 PB_C7
K1 PB_C6
K2 PB_C5
K3 PB_C4
J1 PB_C3
J2 PB_C2
K4 PB_C1
J3 PB_C0
H1 PR9
H2 PR8
G1 PR7
H3 PR6
J4 PR5
G2 PR4
F1 PR3
F2 PR2
G3 PR1
H4 PR0
U1 HDIN
R3 VDIN
T2 FLPHIN
T1 HBLKIN
R2 VBLKIN
C25 VIDCK
3.3K(J) [RMX4A]
RM303
D_GND

46HM84/52HM84/62HM84
SCALER DIGITAL INPUT

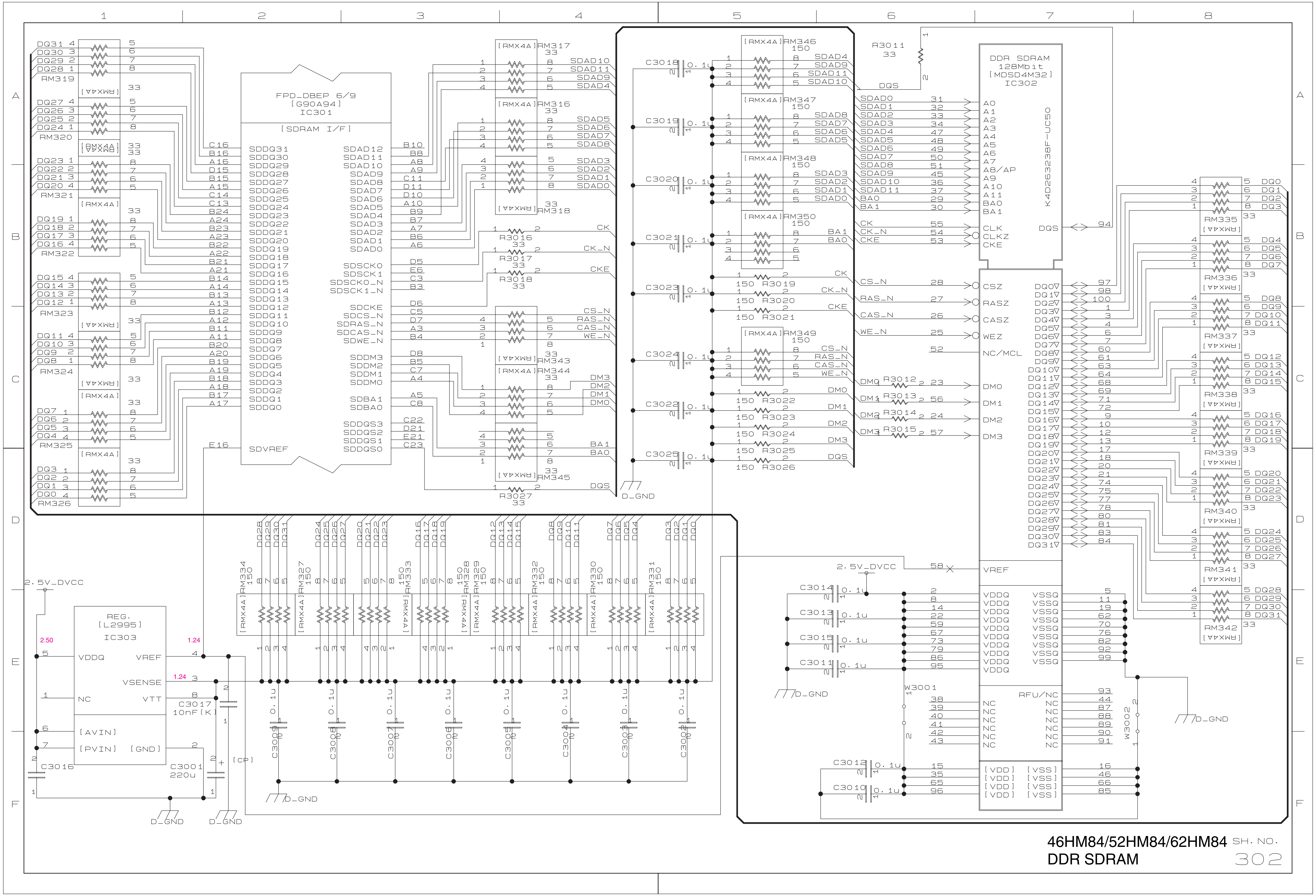
SH. NO.
300


FPD_DBEP 4/9
[G90A94]
IC301
[CAPTURE_IN I/F]
CAPG1IN7
CAPG1IN6
CAPG1IN5
CAPG1IN4
CAPG1IN3
CAPG1IN2
CAPG1IN1
CAPG1IN0
CAPB1IN7
CAPB1IN6
CAPB1IN5
CAPB1IN4
CAPB1IN3
CAPB1IN2
CAPB1IN1
CAPB1IN0
CAPR1IN7
CAPR1IN6
CAPR1IN5
CAPR1IN4
CAPR1IN3
CAPR1IN2
CAPR1IN1
CAPR1IN0
CAPG2IN7
CAPG2IN6
CAPG2IN5
CAPG2IN4
CAPG2IN3
CAPG2IN2
CAPG2IN1
CAPG2IN0
CAPB2IN7
CAPB2IN6
CAPB2IN5
CAPB2IN4
CAPB2IN3
CAPB2IN2
CAPB2IN1
CAPB2IN0
CAPR2IN7
CAPR2IN6
CAPR2IN5
CAPR2IN4
CAPR2IN3
CAPR2IN2
CAPR2IN1
CAPR2IN0
CAPHD
CAPVD
CAPCK
DVIEN
AE8 AF7 AD8 AE7 AF6 AE6 AD7 AC8
AF5 AE5 AD6 AC7 AF4 AD5 AC6 AE4
AD4 AC5 AF3 AE3 AC4 AD3 AB4 AC3
AD2 AB3 AD1 Y4 AA3 AC2 AC1 Y3
AB2 AB1 V4 W3 AA2 AA1 Y2 V3
Y1 W2 W1 U3 V2 T3 V1 U2
P3 R1 E24 P4
R3007 3.3K(J)
R3008 3.3K(J)
R3009 3.3K(J)
R3010 3.3K(J)
RM310 RM314 RM311 RM315 RM313 RM312
RM305 RM304 RM308 RM306 RM309 RM307
3.3K(J) [RMX4A]
QE0 QE1 QE2 QE3 QE4 QE5 QE6 QE7 QE8 QE9 QE10 QE11 QE12 QE13 QE14 QE15 QE16 QE17 QE18 QE19 QE20 QE21 QE22 QE23
QO0 QO1 QO2 QO3 QO4 QO5 QO6 QO7 QO8 QO9 QO10 QO11 QO12 QO13 QO14 QO15 QO16 QO17 QO18 QO19 QO20 QO21 QO22 QO23
D_GND

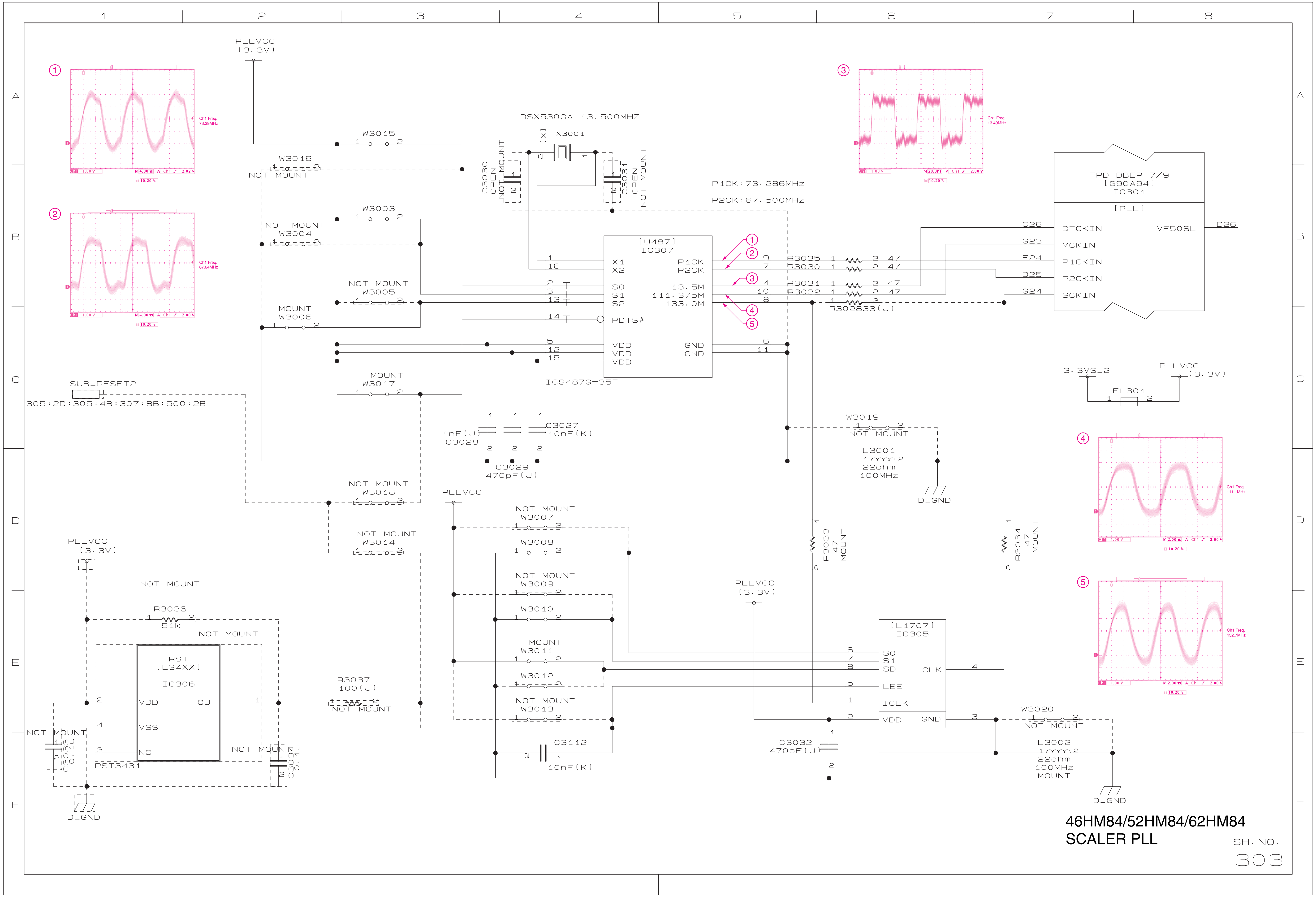
46HM84/52HM84/62HM84
SCALER CAPTURE INPUT

SH. NO.

301


FPD_DBEP 6/9
[G90A94]
IC301
[SDRAM I/F]
DDR SDRAM
128Mbit
[MDSD4M32]
IC302
K4D263238F-UC50
REG.
[L2995]
IC303
VDDQ
VREF
VSENSE
NC
VTT
[AVIN]
[PVIN]
[GND]
2.5V_DVCC
D_GND
C3016
C3001
220u
C3017
10nF(K)
[CP]
R3011
33
RM317
RM316
RM318
RM343
RM344
RM345
RM346
RM347
RM348
RM350
RM349
RM319
RM320
RM321
RM322
RM323
RM324
RM325
RM326
RM335
RM336
RM337
RM338
RM339
RM340
RM341
RM342
RM334
RM327
RM333
RM328
RM329
RM332
RM330
RM331
R3016
R3017
R3018
R3027
R3019
R3020
R3021
R3022
R3023
R3024
R3025
R3026
R3012
R3013
R3014
R3015
W3001
W3002
C3018
C3019
C3020
C3021
C3023
C3024
C3022
C3025
C3014
C3013
C3015
C3011
C3012
C3010
C3009
C3008
C3007
C3006
C3005
C3004
C3003
C3002
CK
CK_N
CKE
CS_N
RAS_N
CAS_N
WE_N
DQS
DM0
DM1
DM2
DM3
BA0
BA1
VDDQ
VSSQ
RFU/NC
[VDD]
[VSS]
2.50
1.24
1.24

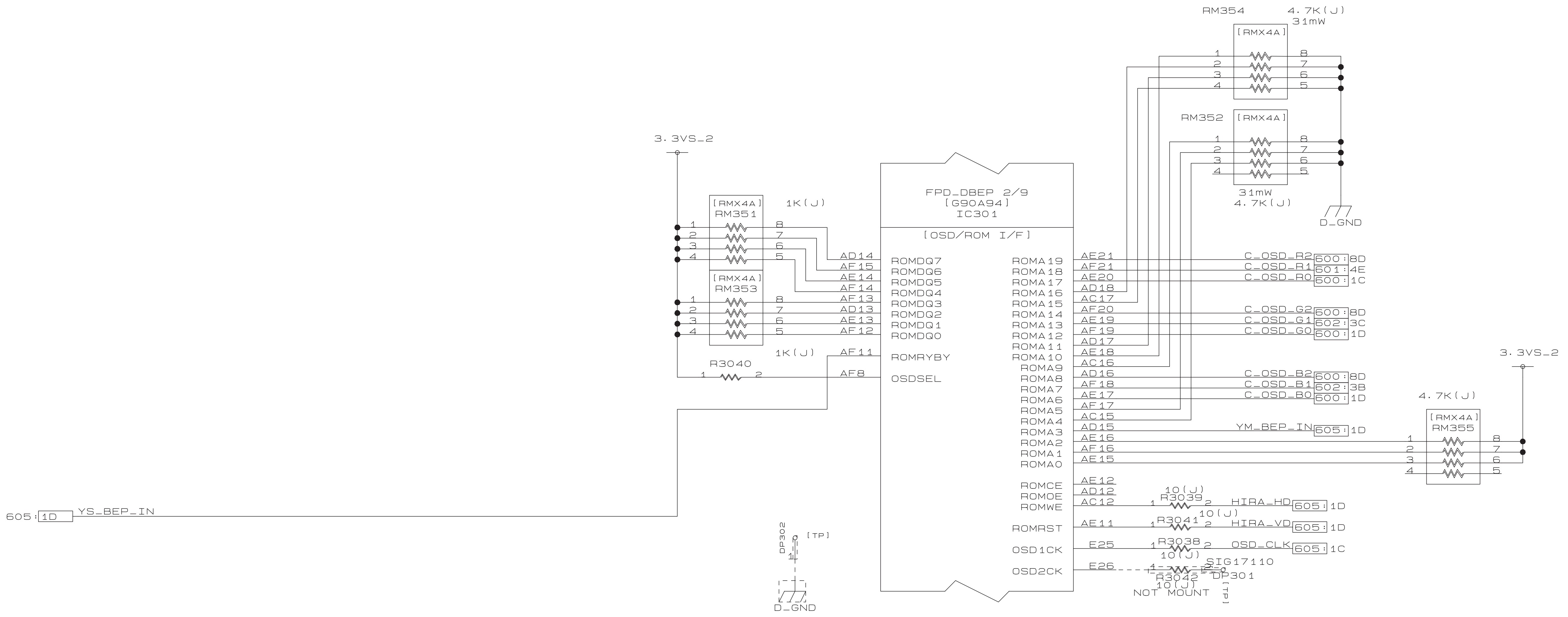
46HM84/52HM84/62HM84 SH. NO.
DDR SDRAM 302



PLLVCC (3.3V)
DSX530GA 13.500MHZ
X3001
C3030 OPEN NOT MOUNT
C3031 OPEN NOT MOUNT
W3015
W3016 NOT MOUNT
W3003
NOT MOUNT W3004
NOT MOUNT W3005
MOUNT W3006
MOUNT W3017
[U487] IC307
X1 X2 S0 S1 S2 PDTS# VDD VDD VDD
P1CK P2CK 13.5M 111.375M 133.0M GND GND
ICS487G-35T
P1CK:73.286MHz
P2CK:67.500MHz
R3035 47
R3030 47
R3031 47
R3032 47
R302833(J)
FPD_DBEP 7/9 [G90A94] IC301
[PLL]
DTCKIN MCKIN P1CKIN P2CKIN SCKIN VF50SL
C26 G23 F24 D25 G24 D26
3.3VS_2
PLLVCC (3.3V)
FL301
SUB_RESET2
305:2D:305:4B:307:8B:500:2B
1nF(J) C3028
C3027 10nF(K)
C3029 470pF(J)
W3019 NOT MOUNT
L3001 220hm 100MHz
D_GND
NOT MOUNT W3018
NOT MOUNT W3014
PLLVCC
NOT MOUNT W3007
W3008
NOT MOUNT W3009
W3010
MOUNT W3011
W3012
NOT MOUNT W3013
C3112 10nF(K)
R3033 47 MOUNT
R3034 47 MOUNT
PLLVCC (3.3V)
[L1707] IC305
S0 S1 SD LEE ICLK VDD CLK GND
C3032 470pF(J)
W3020 NOT MOUNT
L3002 220hm 100MHz MOUNT
D_GND
PLLVCC (3.3V)
NOT MOUNT
R3036 51K
NOT MOUNT
RST [L34XX] IC306
VDD VSS NC OUT
PST3431
R3037 100(J) NOT MOUNT
NOT MOUNT C3033 0.1
NOT MOUNT C3034 0.1
D_GND
①
②
③
④
⑤
Ch1 Freq 73.30MHz
Ch1 Freq 67.64MHz
Ch1 Freq. 13.49MHz
Ch1 Freq. 111.1MHz
Ch1 Freq. 132.7MHz
1 2 3 4 5 6 7 8
A B C D E F

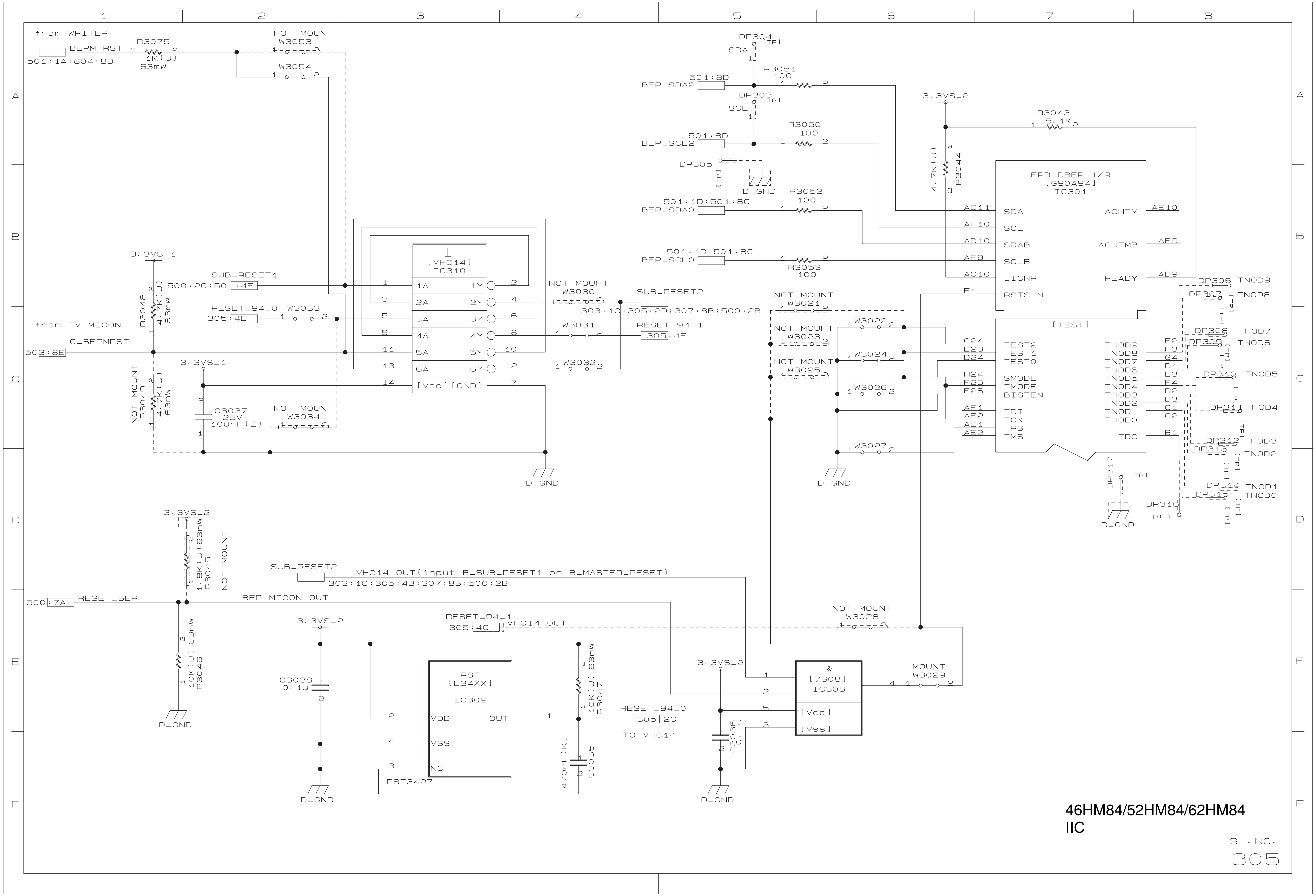
46HM84/52HM84/62HM84
SCALER PLL

SH. NO.
303


RM354
4.7K(J)
31mW
[RMX4A]
RM352
[RMX4A]
31mW
4.7K(J)
D_GND
3.3VS_2
[RMX4A]
RM351
1K(J)
[RMX4A]
RM353
1K(J)
R3040
FPD_DBEP 2/9
[G90A94]
IC301
[OSD/ROM I/F]
AD14
AF15
AE14
AF14
AF13
AD13
AE13
AF12
AF11
AF8
ROMDQ7
ROMDQ6
ROMDQ5
ROMDQ4
ROMDQ3
ROMDQ2
ROMDQ1
ROMDQ0
ROMRYBY
OSDSEL
ROMA19
ROMA18
ROMA17
ROMA16
ROMA15
ROMA14
ROMA13
ROMA12
ROMA11
ROMA10
ROMA9
ROMA8
ROMA7
ROMA6
ROMA5
ROMA4
ROMA3
ROMA2
ROMA1
ROMA0
ROMCE
ROMOE
ROMWE
ROMRST
OSD1CK
OSD2CK
AE21
AF21
AE20
AD18
AC17
AF20
AE19
AF19
AD17
AE18
AC16
AD16
AF18
AE17
AF17
AC15
AD15
AE16
AF16
AE15
AE12
AD12
AC12
AE11
E25
E26
C_OSD_R2 600:8D
C_OSD_R1 601:4E
C_OSD_R0 600:1C
C_OSD_G2 600:8D
C_OSD_G1 602:3C
C_OSD_G0 600:1D
C_OSD_B2 600:8D
C_OSD_B1 602:3B
C_OSD_B0 600:1D
YM_BEP_IN 605:1D
3.3VS_2
4.7K(J)
[RMX4A]
RM355
10(J)
R3039
HIRA_HD 605:1D
10(J)
R3041
HIRA_VD 605:1D
R3038
10(J)
OSD_CLK 605:1C
SIG17110
R3042
DP301
10(J)
NOT MOUNT
[TP]
DP302
[TP]
D_GND
605:1D YS_BEP_IN

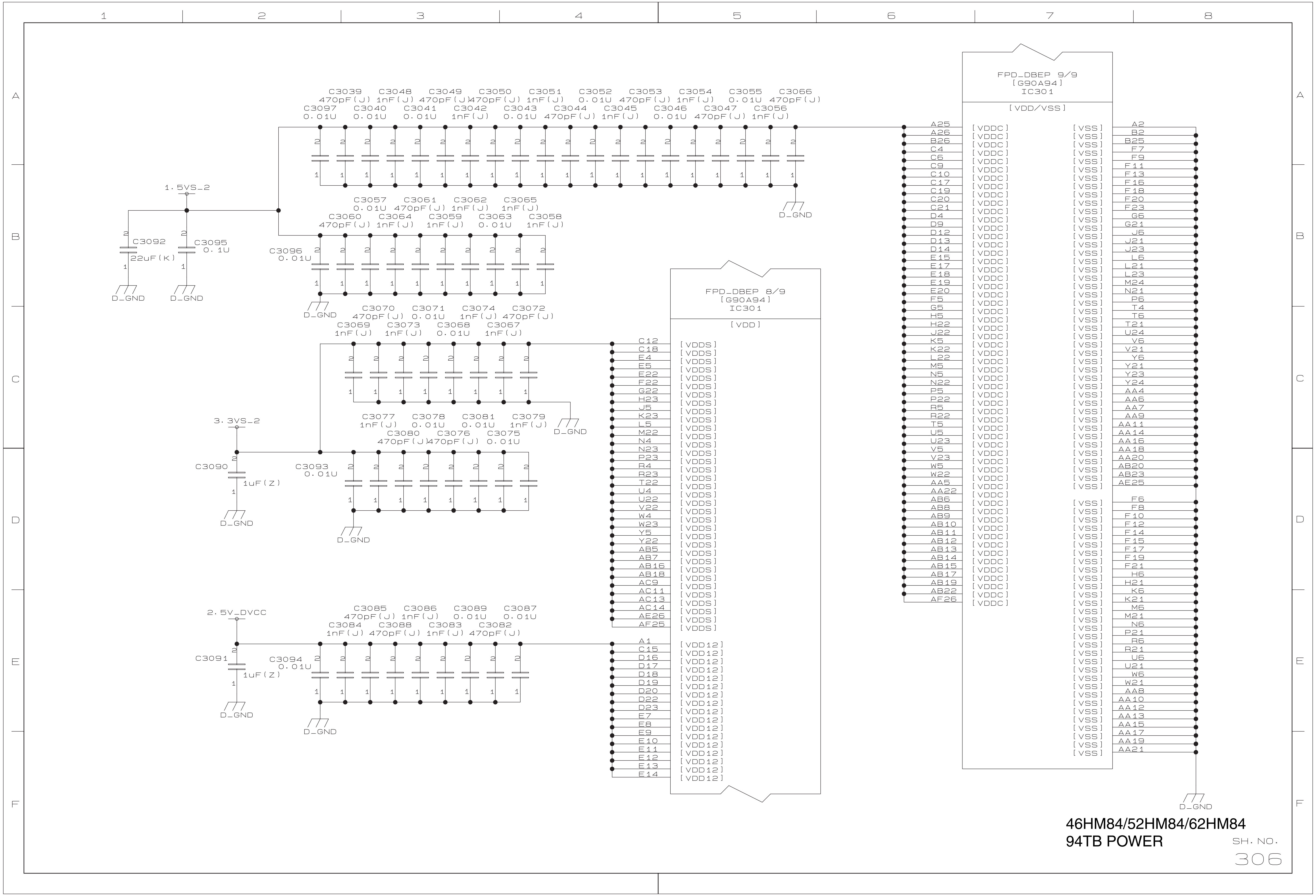
46HM84/52HM84/62HM84
OSD for North America

SH. NO.
304

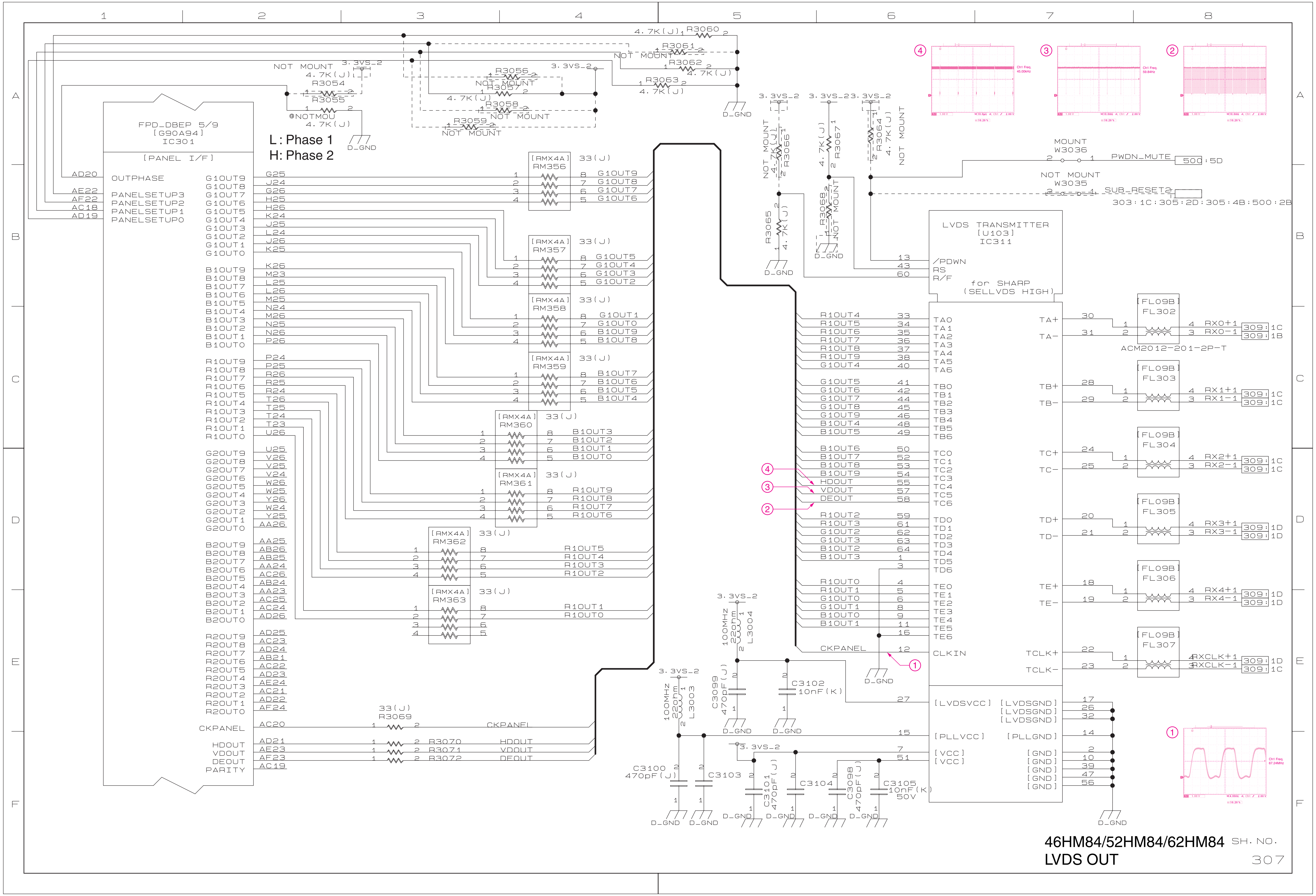

from WRITER
BEPM_RST
501:1A:804:8D
R3075
1K(J)
63mW
NOT MOUNT
W3053
W3054
DP304
SDA
[TP]
501:8D
BEP_SDA2
R3051
100
DP303
SCL
BEP_SCL2
R3050
100
DP305
D_GND
R3052
100
501:1D:501:8C
BEP_SDA0
BEP_SCL0
R3053
100
3.3VS_2
R3043
5.1K
R3044
4.7K(J)
FPD_DBEP 1/9
[G90A94]
IC301
AD11 SDA
AF10 SCL
AD10 SDAB
AF9 SCLB
AC10 IICNR
E1 RSTS_N
ACNTM AE10
ACNTMB AE9
READY AD9
[TEST]
C24 TEST2
E23 TEST1
D24 TEST0
H24 SMODE
F25 TMODE
F26 BISTEN
AF1 TDI
AF2 TCK
AE1 TRST
AE2 TMS
TDO B1
TNOD9 E2
TNOD8 F3
TNOD7 G4
TNOD6 D1
TNOD5 E3
TNOD4 F4
TNOD3 D2
TNOD2 D3
TNOD1 C1
TNOD0 C2
DP306 TNOD9
DP307 TNOD8
DP308 TNOD7
DP309 TNOD6
DP310 TNOD5
DP311 TNOD4
DP312 TNOD3
DP313 TNOD2
DP314 TNOD1
DP315 TNOD0
DP316
DP317
NOT MOUNT
W3021
W3022
NOT MOUNT
W3023
W3024
NOT MOUNT
W3025
W3026
W3027
3.3VS_1
SUB_RESET1
500:2C:501:4F
R3048
4.7K(J)
63mW
RESET_94_0
W3033
305:4E
from TV MICON
C_BEPMRST
503:8E
NOT MOUNT
R3049
4.7K(J)
63mW
3.3VS_1
C3037
25V
100nF(Z)
NOT MOUNT
W3034
[VHC14]
IC310
1A 1Y
2A 2Y
3A 3Y
4A 4Y
5A 5Y
6A 6Y
[Vcc] [GND]
NOT MOUNT
W3030
SUB_RESET2
303:1C:305:2D:307:8B:500:2B
W3031
RESET_94_1
305:4E
W3032
D_GND
3.3VS_2
R3045
1.8K(J)63mW
NOT MOUNT
SUB_RESET2
VHC14 OUT(input B_SUB_RESET1 or B_MASTER_RESET)
303:1C:305:4B:307:8B:500:2B
500:7A
RESET_BEP
BEP MICON OUT
R3046
10K(J) 63mW
RESET_94_1
305:4C
VHC14 OUT
NOT MOUNT
W3028
3.3VS_2
C3038
0.1u
RST
[L34XX]
IC309
VDD
VSS
NC
OUT
PST3427
R3047
10K(J) 63mW
RESET_94_0
305:2C
TO VHC14
C3035
470nF(K)
3.3VS_2
&
[7S08]
IC308
[Vcc]
[Vss]
C3036
0.1u
MOUNT
W3029

46HM84/52HM84/62HM84
IIC

SH. NO.
305

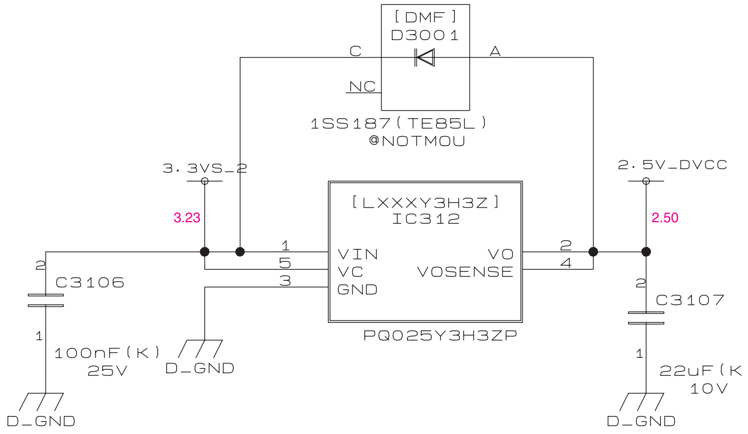

1 2 3 4 5 6 7 8
A B C D E F
1.5VS_2
C3092 22uF(K)
C3095 0.1U
C3096 0.01U
D_GND
C3039 470pF(J) C3048 1nF(J) C3049 470pF(J) C3050 470pF(J) C3051 1nF(J) C3052 0.01U C3053 470pF(J) C3054 1nF(J) C3055 0.01U C3066 470pF(J)
C3097 0.01U C3040 0.01U C3041 0.01U C3042 1nF(J) C3043 0.01U C3044 470pF(J) C3045 1nF(J) C3046 0.01U C3047 470pF(J) C3056 1nF(J)
C3057 0.01U C3061 470pF(J) C3062 1nF(J) C3065 1nF(J)
C3060 470pF(J) C3064 1nF(J) C3059 1nF(J) C3063 0.01U C3058 1nF(J)
3.3VS_2
C3090 1uF(Z)
C3093 0.01U
C3070 470pF(J) C3071 0.01U C3074 1nF(J) C3072 470pF(J)
C3069 1nF(J) C3073 1nF(J) C3068 0.01U C3067 1nF(J)
C3077 1nF(J) C3078 0.01U C3081 0.01U C3079 1nF(J)
C3080 470pF(J) C3076 470pF(J) C3075 0.01U
2.5V_DVCC
C3091 1uF(Z)
C3094 0.01U
C3085 470pF(J) C3086 1nF(J) C3089 0.01U C3087 0.01U
C3084 1nF(J) C3088 470pF(J) C3083 1nF(J) C3082 470pF(J)
FPD_DBEP 8/9 [G90A94] IC301
[VDD]
C12 C18 E4 E5 E22 F22 G22 H23 J5 K23 L5 M22 N4 N23 P23 R4 R23 T22 U4 U22 V22 W4 W23 Y5 Y22 AB5 AB7 AB16 AB18 AC9 AC11 AC13 AC14 AE26 AF25 [VDDS]
A1 C15 D16 D17 D18 D19 D20 D22 D23 E7 E8 E9 E10 E11 E12 E13 E14 [VDD12]
FPD_DBEP 9/9 [G90A94] IC301
[VDD/VSS]
A25 A26 B26 C4 C6 C9 C10 C17 C19 C20 C21 D4 D9 D12 D13 D14 E15 E17 E18 E19 E20 F5 G5 H5 H22 J22 K5 K22 L22 M5 N5 N22 P5 P22 R5 R22 T5 U5 U23 V5 V23 W5 W22 AA5 AA22 AB6 AB8 AB9 AB10 AB11 AB12 AB13 AB14 AB15 AB17 AB19 AB22 AF26 [VDDC]
A2 B2 B25 F7 F9 F11 F13 F16 F18 F20 F23 G6 G21 J6 J21 J23 L6 L21 L23 M24 N21 P6 T4 T6 T21 U24 V6 V21 Y6 Y21 Y23 Y24 AA4 AA6 AA7 AA9 AA11 AA14 AA16 AA18 AA20 AB20 AB23 AE25 [VSS]
F6 F8 F10 F12 F14 F15 F17 F19 F21 H6 H21 K6 K21 M6 M21 N6 P21 R6 R21 U6 U21 W6 W21 AA8 AA10 AA12 AA13 AA15 AA17 AA19 AA21 [VSS]

46HM84/52HM84/62HM84
94TB POWER
SH. NO.
306


FPD_DBEP 5/9
[G90A94]
IC301
[PANEL I/F]
OUTPHASE
PANELSETUP3
PANELSETUP2
PANELSETUP1
PANELSETUP0
AD20
AE22
AF22
AC18
AD19
L : Phase 1
H: Phase 2
NOT MOUNT
3.3VS_2
4.7K(J)
R3054
R3055
@NOTMOU
D_GND
R3056
NOT MOUNT
R3057
R3058
R3059
R3060
R3061
R3062
R3063
R3064
R3065
R3066
R3067
R3068
[RMX4A] RM356
[RMX4A] RM357
[RMX4A] RM358
[RMX4A] RM359
[RMX4A] RM360
[RMX4A] RM361
[RMX4A] RM362
[RMX4A] RM363
33(J)
CKPANEL
HDOUT
VDOUT
DEOUT
PARITY
R3069
R3070
R3071
R3072
LVDS TRANSMITTER
[U103]
IC311
for SHARP
(SELLVDS HIGH)
/PDWN
RS
R/F
MOUNT
W3036
PWDN_MUTE
500:5D
NOT MOUNT
W3035
SUB_RESET2
303:1C;305:2D;305:4B;500:2B
TA+
TA-
TB+
TB-
TC+
TC-
TD+
TD-
TE+
TE-
TCLK+
TCLK-
CLKIN
[LVDSVCC]
[LVDSGND]
[PLLVCC]
[PLLGND]
[VCC]
[GND]
[FL09B] FL302
[FL09B] FL303
[FL09B] FL304
[FL09B] FL305
[FL09B] FL306
[FL09B] FL307
ACM2012-201-2P-T
RX0+1
RX0-1
RX1+1
RX1-1
RX2+1
RX2-1
RX3+1
RX3-1
RX4+1
RX4-1
RXCLK+1
RXCLK-1
309:1C
309:1B
309:1D
100MHz 220ohm L3004
100MHz 220ohm L3003
C3099 470pF(J)
C3102 10nF(K)
C3100 470pF(J)
C3103
C3101 470pF(J)
C3104
C3098 470pF(J)
C3105 10nF(K) 50V
①
②
③
④

46HM84/52HM84/62HM84
LVDS OUT

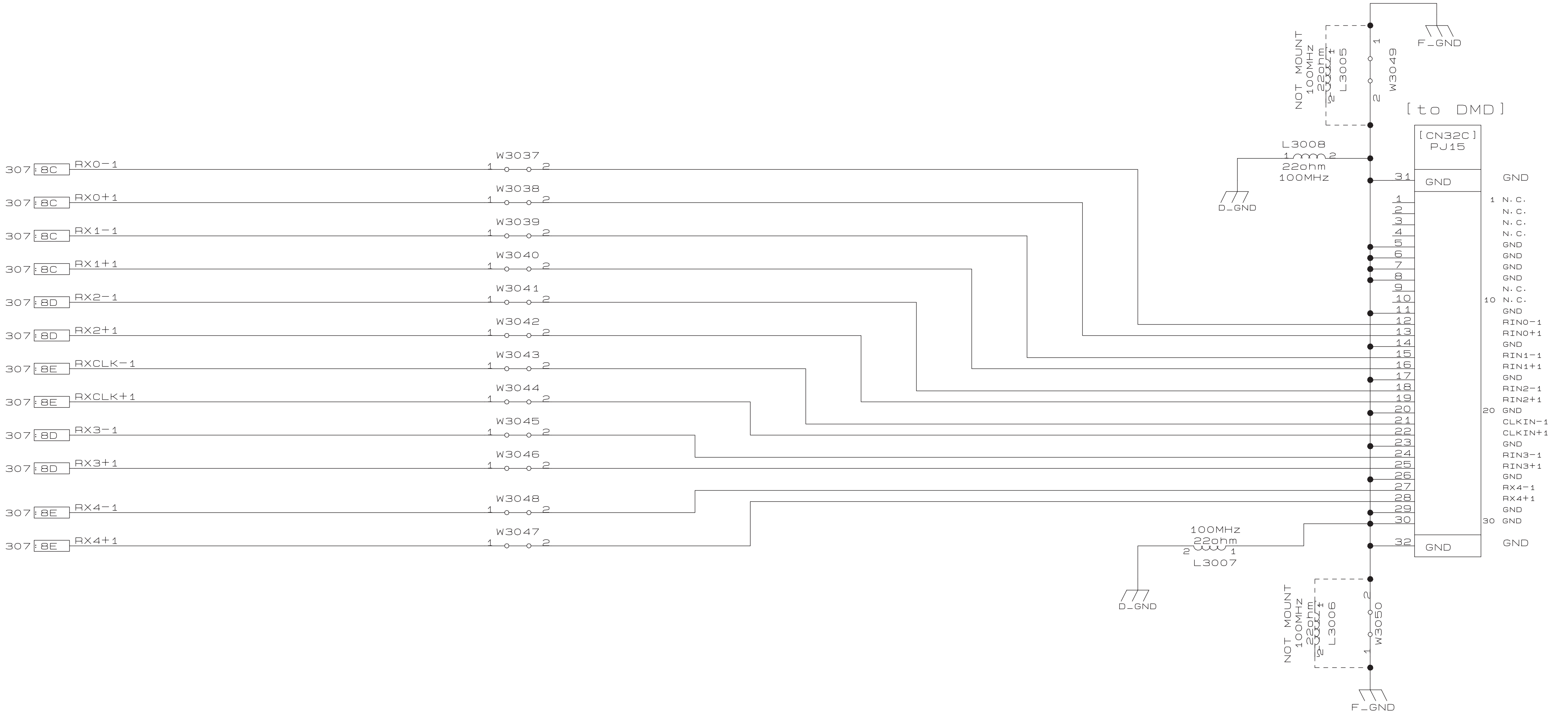
SH. NO.
307



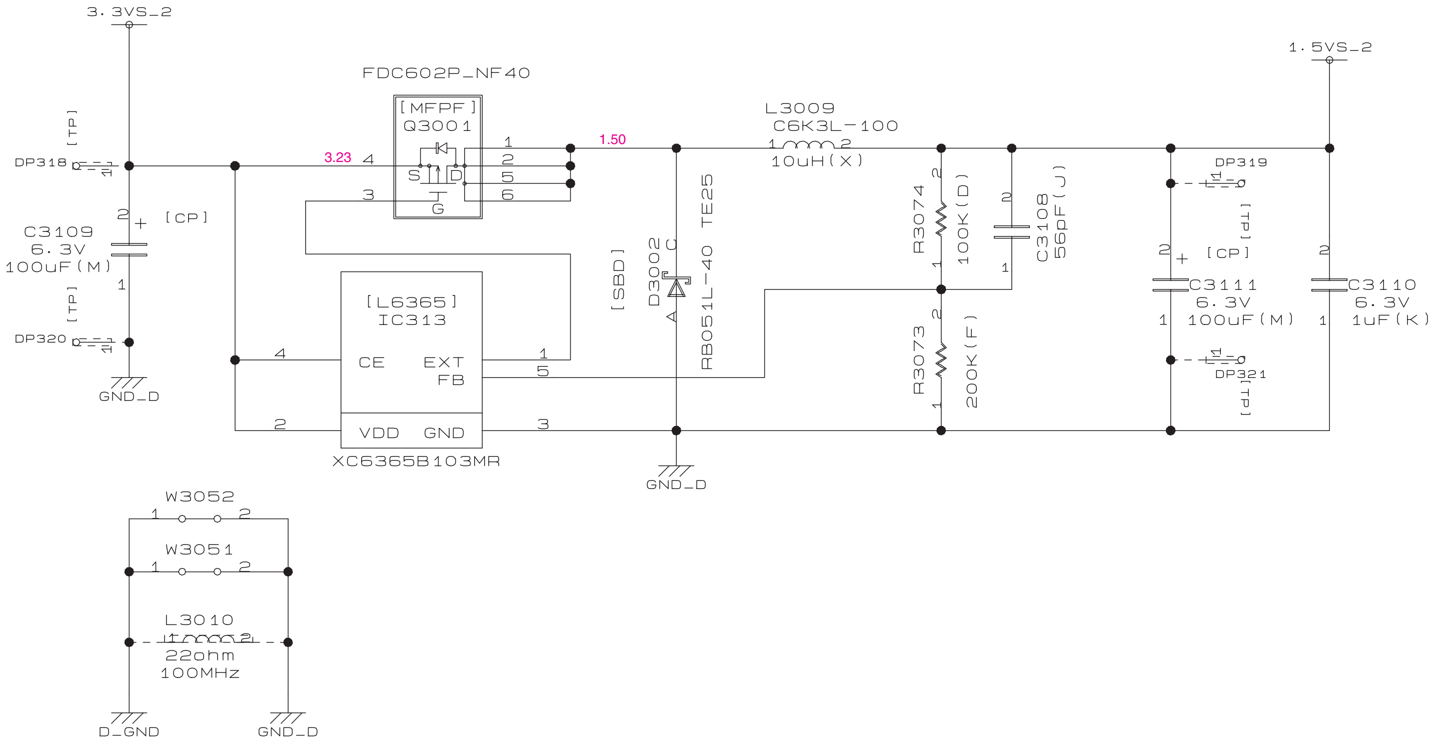
[DMF]
D3001
C
A
NC
1SS187(TE85L)
@NOTMOU
3.3VS_2
3.23
2.5V_DVCC
2.50
[LXXXY3H3Z]
IC312
1
5
3
VIN
VC
GND
VO
VOSENSE
2
4
PQ025Y3H3ZP
2
C3106
1
100nF(K)
25V
D_GND
D_GND
2
C3107
1
22uF(K)
10V
D_GND

46HM84/52HM84/62HM84
Power (3.3V_2 to 2.5V_DVCC)

SH. NO.
308

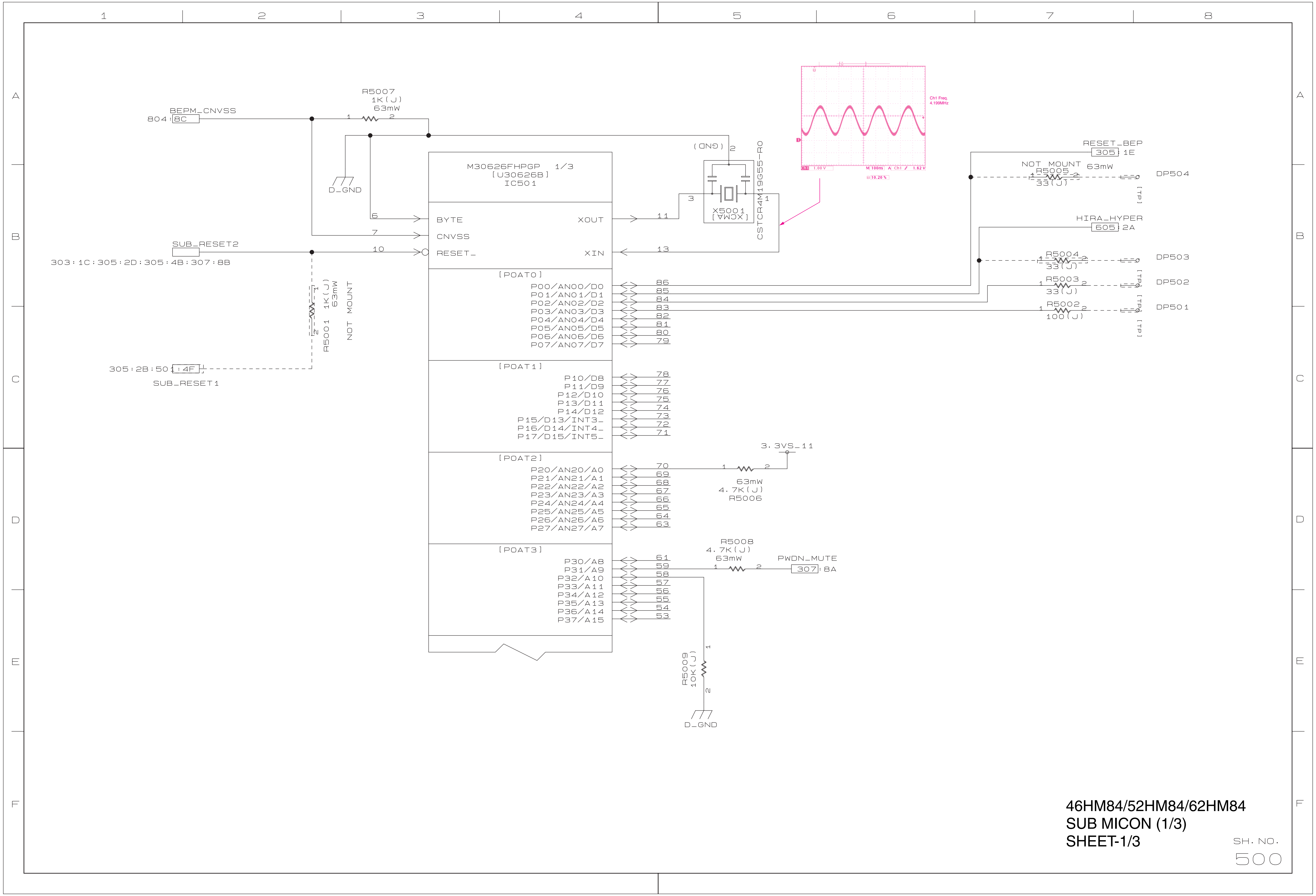

307 8C RX0−1
307 8C RX0+1
307 8C RX1−1
307 8C RX1+1
307 8D RX2−1
307 8D RX2+1
307 8E RXCLK−1
307 8E RXCLK+1
307 8D RX3−1
307 8D RX3+1
307 8E RX4−1
307 8E RX4+1
W3037
W3038
W3039
W3040
W3041
W3042
W3043
W3044
W3045
W3046
W3048
W3047
NOT MOUNT 100MHz 22ohm L3005
W3049
F_GND
[to DMD]
[CN32C] PJ15
L3008 22ohm 100MHz
D_GND
31 GND GND
1 N.C.
2 N.C.
3 N.C.
4 N.C.
5 GND
6 GND
7 GND
8 GND
9 N.C.
10 N.C.
11 GND
12 RIN0−1
13 RIN0+1
14 GND
15 RIN1−1
16 RIN1+1
17 GND
18 RIN2−1
19 RIN2+1
20 GND
21 CLKIN−1
22 CLKIN+1
23 GND
24 RIN3−1
25 RIN3+1
26 GND
27 RX4−1
28 RX4+1
29 GND
30 GND
32 GND GND
100MHz 22ohm L3007
D_GND
NOT MOUNT 100MHz 22ohm L3006
W3050
F_GND

46HM84/52HM84/62HM84
LVDS OUT CONNECTOR
SH. NO.
309


3.3VS_2
FDC602P_NF40
[MFPF]
Q3001
S
D
G
3.23
1.50
L3009
C6K3L-100
10uH(X)
1.5VS_2
DP318
[TP]
C3109
6.3V
100uF(M)
[CP]
DP320
GND_D
[L6365]
IC313
CE
EXT
FB
VDD
GND
XC6365B103MR
[SBD]
D3002
RB051L-40 TE25
GND_D
R3074
100K(D)
C3108
56pF(J)
R3073
200K(F)
DP319
[TP]
[CP]
C3111
6.3V
100uF(M)
DP321
[TP]
C3110
6.3V
1uF(K)
W3052
W3051
L3010
22ohm
100MHz
D_GND
GND_D

46HM84/52HM84/62HM84
DC/DC CONVERTER

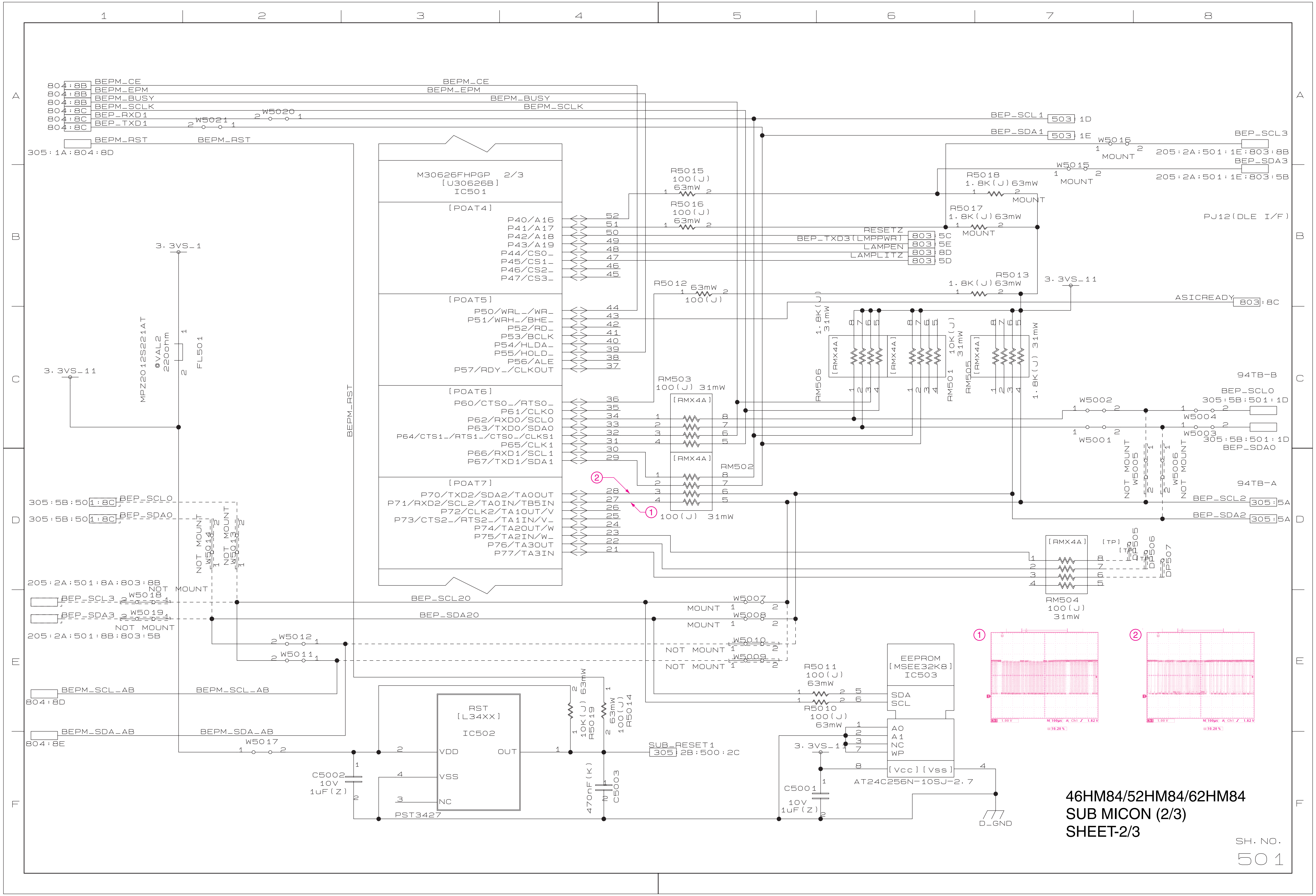
SH. NO.
310


1
2
3
4
5
6
7
8
A
B
C
D
E
F
R5007
1K(J)
63mW
BEPM_CNVSS
804:8C
D_GND
M30626FHPGP 1/3
[U30626B]
IC501
BYTE
CNVSS
RESET_
XOUT
XIN
6
7
10
11
13
(GND)
2
3
1
X5001
[XCMA]
CSTCR4M19G55-R0
Ch1 Freq.
4.199MHz
SUB_RESET2
303:1C:305:2D:305:4B:307:8B
R5001 1K(J) 63mW
NOT MOUNT
305:2B:501:4F
SUB_RESET1
[PORT0]
P00/AN00/D0
P01/AN01/D1
P02/AN02/D2
P03/AN03/D3
P04/AN04/D4
P05/AN05/D5
P06/AN06/D6
P07/AN07/D7
86
85
84
83
82
81
80
79
[PORT1]
P10/D8
P11/D9
P12/D10
P13/D11
P14/D12
P15/D13/INT3_
P16/D14/INT4_
P17/D15/INT5_
78
77
76
75
74
73
72
71
[PORT2]
P20/AN20/A0
P21/AN21/A1
P22/AN22/A2
P23/AN23/A3
P24/AN24/A4
P25/AN25/A5
P26/AN26/A6
P27/AN27/A7
70
69
68
67
66
65
64
63
[PORT3]
P30/A8
P31/A9
P32/A10
P33/A11
P34/A12
P35/A13
P36/A14
P37/A15
61
59
58
57
56
55
54
53
3.3VS_11
63mW
4.7K(J)
R5006
R5008
4.7K(J)
63mW
PWDN_MUTE
307:8A
R5009
10K(J)
D_GND
RESET_BEP
305:1E
NOT MOUNT 63mW
R5005
33(J)
DP504
[TP]
HIRA_HYPER
605:2A
R5004
33(J)
DP503
R5003
33(J)
DP502
R5002
100(J)
DP501

46HM84/52HM84/62HM84
SUB MICON (1/3)
SHEET-1/3

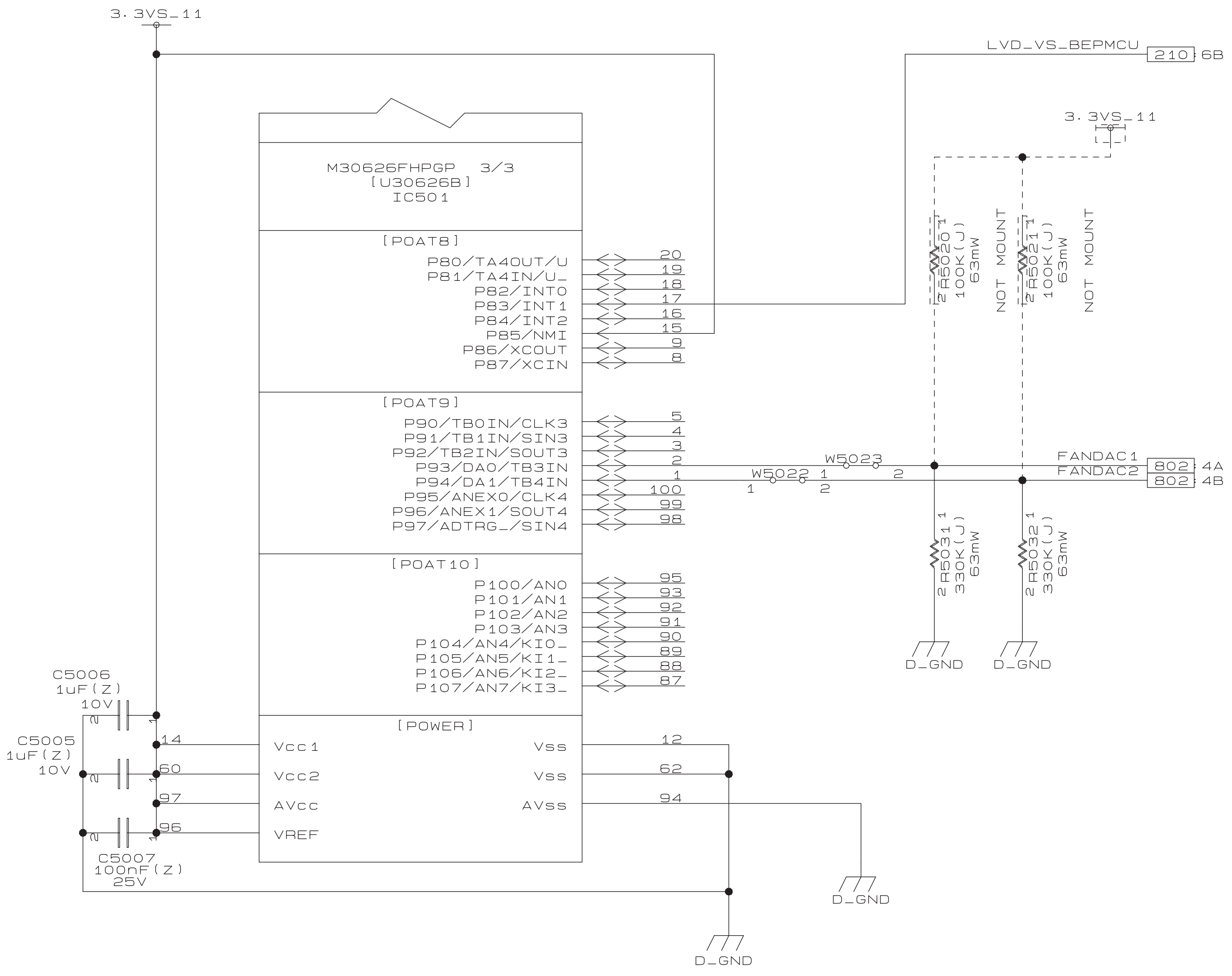
SH. NO.
500

5T03655D


BEPM_CE
BEPM_EPM
BEPM_BUSY
BEPM_SCLK
BEP_RXD1
BEP_TXD1
BEPM_RST
804:8B
804:8C
305:1A:804:8D
W5020
W5021
BEP_SCL1
BEP_SDA1
503 1D
503 1E
BEP_SCL3
BEP_SDA3
205:2A:501:1E:803:8B
205:2A:501:1E:803:5B
W5016
W5015
MOUNT
M30626FHPGP 2/3
[U30626B]
IC501
[POAT4]
P40/A16
P41/A17
P42/A18
P43/A19
P44/CS0_
P45/CS1_
P46/CS2_
P47/CS3_
[POAT5]
P50/WRL_/WR_
P51/WRH_/BHE_
P52/RD_
P53/BCLK
P54/HLDA_
P55/HOLD_
P56/ALE
P57/RDY_/CLKOUT
[POAT6]
P60/CTS0_/RTS0_
P61/CLK0
P62/RXD0/SCL0
P63/TXD0/SDA0
P64/CTS1_/RTS1_/CTS0_/CLKS1
P65/CLK1
P66/RXD1/SCL1
P67/TXD1/SDA1
[POAT7]
P70/TXD2/SDA2/TA0OUT
P71/RXD2/SCL2/TA0IN/TB5IN
P72/CLK2/TA1OUT/V
P73/CTS2_/RTS2_/TA1IN/V_
P74/TA2OUT/W
P75/TA2IN/W_
P76/TA3OUT
P77/TA3IN
R5015 100(J) 63mW
R5016 100(J) 63mW
R5018 1.8K(J) 63mW
R5017 1.8K(J) 63mW
R5013 1.8K(J) 63mW
R5012 63mW 100(J)
RESETZ
BEP_TXD3(LMPPWR)
LAMPEN
LAMPLITZ
803 5C
803 5E
803 8D
803 5D
PJ12(DLE I/F)
3.3VS_1
3.3VS_11
ASICREADY
803 8C
MPZ2012S221AT
@VAL2
220ohm
FL501
RM506
RM501
RM505
[RMX4A]
1.8K(J) 31mW
10K(J) 31mW
RM503
100(J) 31mW
RM502
100(J) 31mW
94TB-B
BEP_SCL0
305:5B:501:1D
BEP_SDA0
W5002
W5004
W5001
W5003
W5005
W5006
NOT MOUNT
94TB-A
BEP_SCL2
BEP_SDA2
305 5A
305:5B:501:8C
W5014
W5013
[TP]
DP505
DP506
DP507
RM504
100(J)
31mW
205:2A:501:8A:803:8B
205:2A:501:8B:803:5B
W5018
W5019
BEP_SCL20
BEP_SDA20
W5007
W5008
W5010
W5009
W5012
W5011
BEPM_SCL_AB
BEPM_SDA_AB
804:8D
804:8E
W5017
EEPROM
[MSEE32K8]
IC503
SDA
SCL
A0
A1
NC
WP
[Vcc] [Vss]
AT24C256N-10SJ-2.7
R5011 100(J) 63mW
R5010 100(J) 63mW
RST
[L34XX]
IC502
VDD
VSS
NC
OUT
PST3427
C5002 10V 1uF(Z)
C5001 10V 1uF(Z)
R5019 10K(J) 63mW
R5014 100(J) 63mW
C5003 470nF(K)
SUB_RESET1
305 2B:500:2C
D_GND
①
②

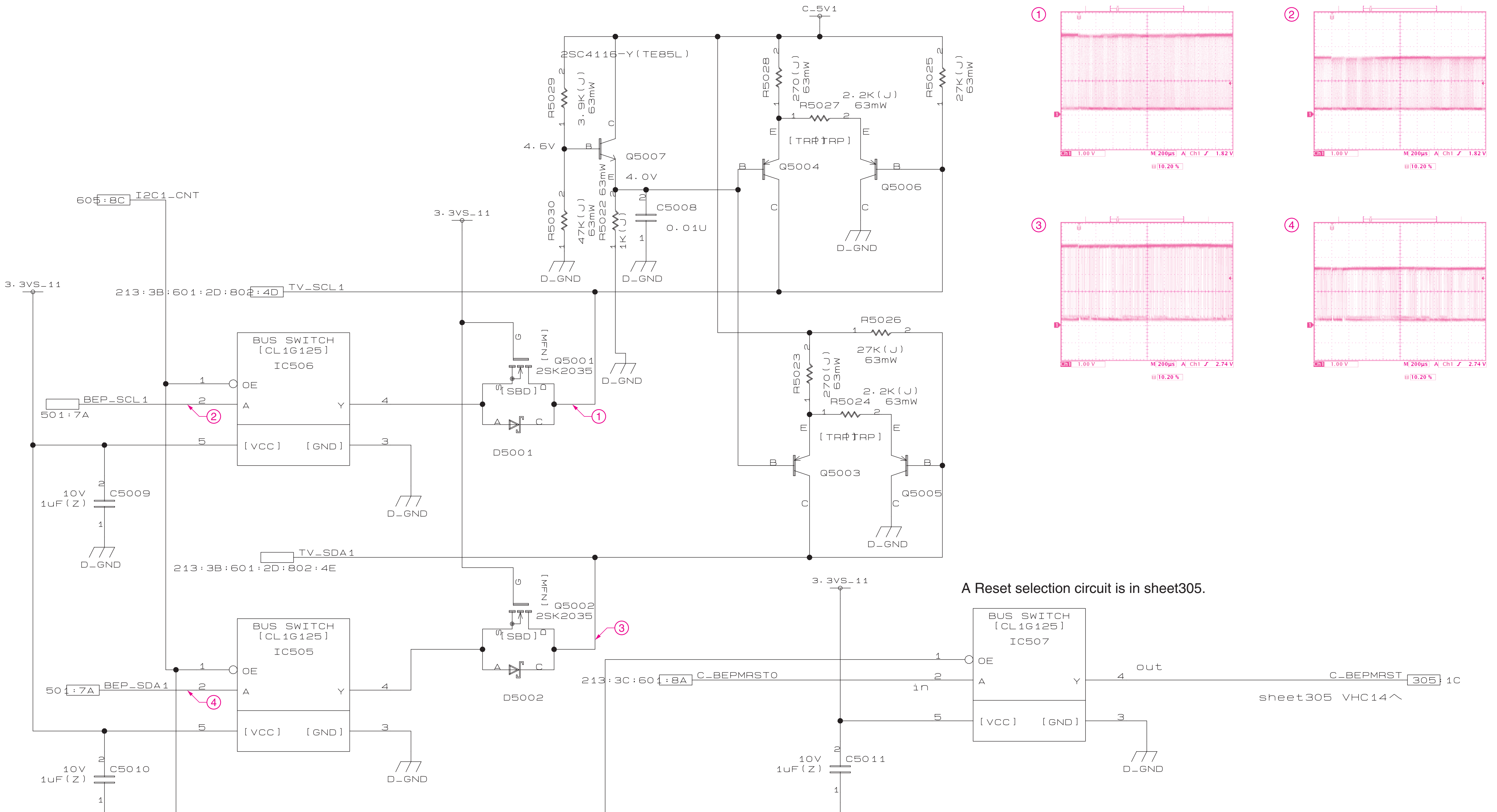
46HM84/52HM84/62HM84
SUB MICON (2/3)
SHEET-2/3

SH. NO.
501


3.3VS_11
M30626FHPGP 3/3
[U30626B]
IC501
[POAT8]
P80/TA4OUT/U 20
P81/TA4IN/U_ 19
P82/INT0 18
P83/INT1 17
P84/INT2 16
P85/NMI 15
P86/XCOUT 9
P87/XCIN 8
[POAT9]
P90/TB0IN/CLK3 5
P91/TB1IN/SIN3 4
P92/TB2IN/SOUT3 3
P93/DA0/TB3IN 2
P94/DA1/TB4IN 1
P95/ANEX0/CLK4 100
P96/ANEX1/SOUT4 99
P97/ADTRG_/SIN4 98
[POAT10]
P100/AN0 95
P101/AN1 93
P102/AN2 92
P103/AN3 91
P104/AN4/KI0_ 90
P105/AN5/KI1_ 89
P106/AN6/KI2_ 88
P107/AN7/KI3_ 87
[POWER]
Vcc1 14
Vcc2 60
AVcc 97
VREF 96
Vss 12
Vss 62
AVss 94
C5006
1uF(Z)
10V
C5005
1uF(Z)
10V
C5007
100nF(Z)
25V
D_GND
D_GND
LVD_VS_BEPMCU
210 6B
3.3VS_11
R5020
100K(J)
63mW
NOT MOUNT
R5021
100K(J)
63mW
NOT MOUNT
W5022
W5023
FANDAC1
FANDAC2
802 4A
802 4B
R5031
330K(J)
63mW
R5032
330K(J)
63mW
D_GND
D_GND

46HM84/52HM84/62HM84
SUB MICON (3/3)
SHEET-3/3

SH. NO.
502

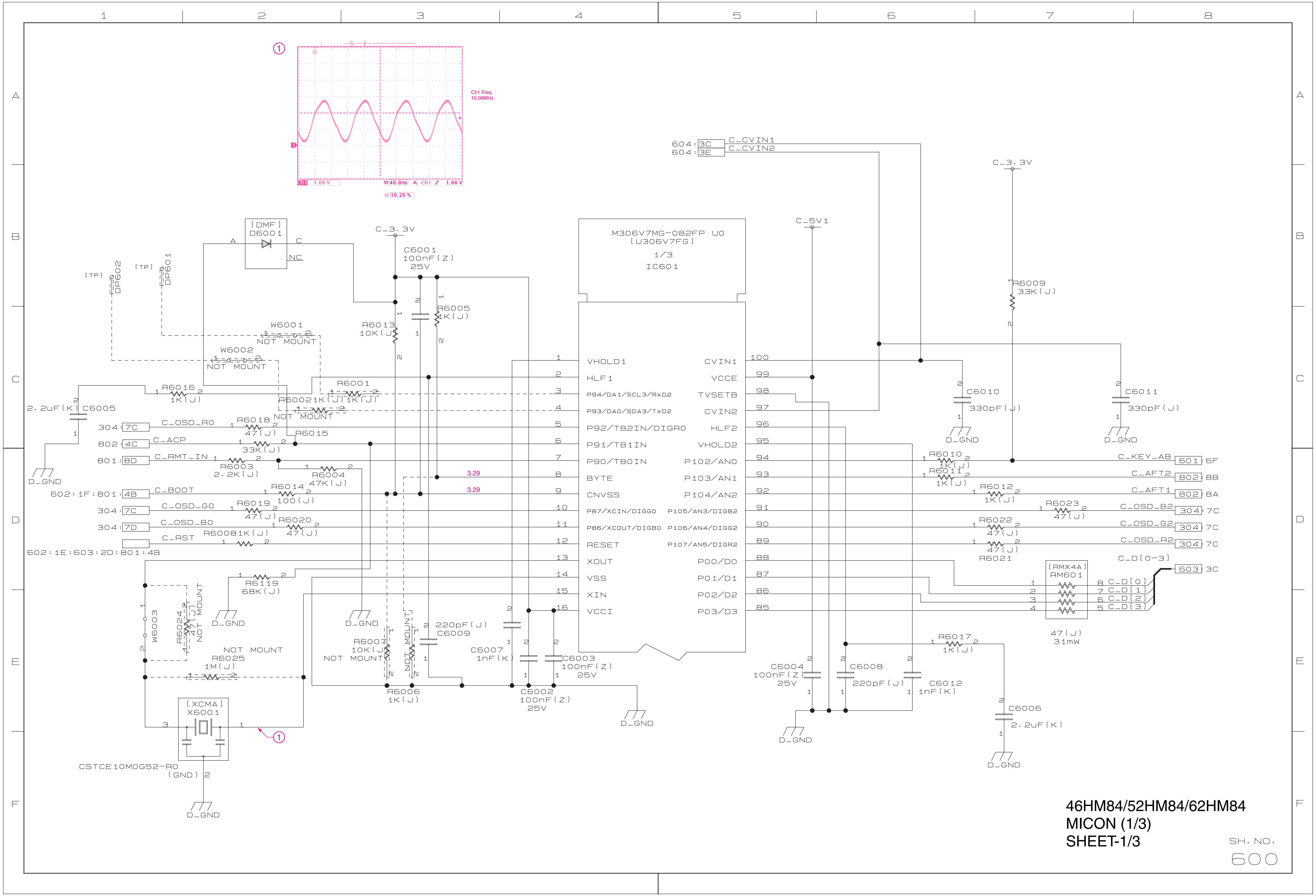

605:8C I2C1_CNT
3.3VS_11
213:3B:601:2D:802:4D TV_SCL1
BEP_SCL1
501:7A
BUS SWITCH
[CL1G125]
IC506
OE
A
Y
[VCC]
[GND]
10V
1uF(Z)
C5009
D_GND
213:3B:601:2D:802:4E TV_SDA1
501:7A BEP_SDA1
BUS SWITCH
[CL1G125]
IC505
C5010
[MFN]
Q5001
2SK2035
[SBD]
D5001
Q5002
2SK2035
D5002
2SC4116-Y(TE85L)
R5029
3.9K(J)
63mW
4.6V
Q5007
4.0V
R5030
47K(J)
63mW
R5022
1K(J)
63mW
C5008
0.01U
C_5V1
R5028
270(J)
63mW
R5027
2.2K(J)
63mW
R5025
27K(J)
63mW
[TRP][TRP]
Q5004
Q5006
R5026
27K(J)
63mW
R5023
270(J)
63mW
R5024
2.2K(J)
63mW
Q5003
Q5005
213:3C:601:8A C_BEPMRST0
in
BUS SWITCH
[CL1G125]
IC507
out
C_BEPMRST
305 1C
sheet305 VHC14へ
C5011
①
②
③
④

A Reset selection circuit is in sheet305.

It intercepts by H at the time of BEP micon writing.

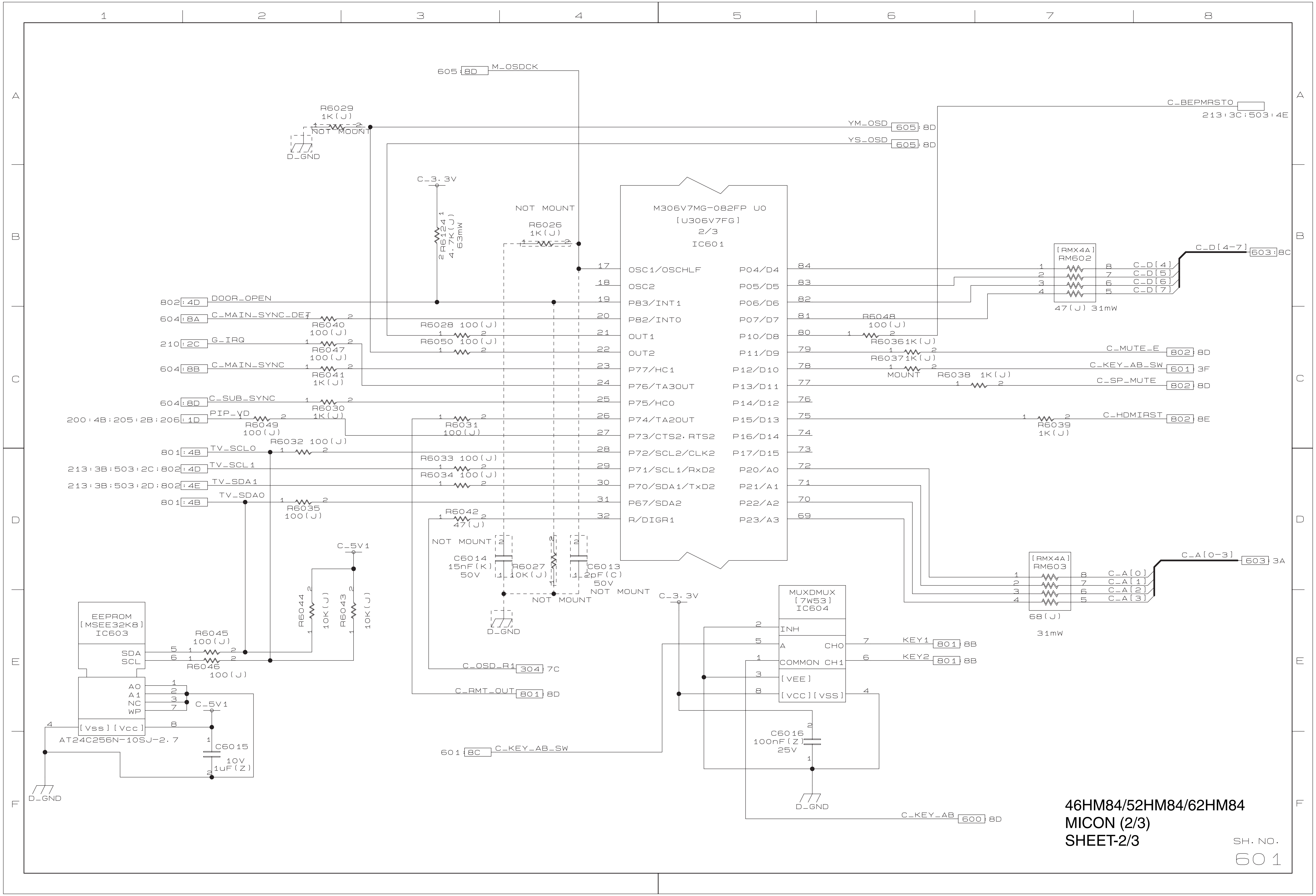
46HM84/52HM84/62HM84
OSD MICON 4/4

SH. NO.
503


Ch1 Freq. 10.06MHz
Ch1 1.00 V M 40.0ns A Ch1 1.66 V
10.20 %
①
M306V7MG-082FP U0
[U306V7FG]
1/3
IC601
VHOLD1
HLF1
P94/DA1/SCL3/RxD2
P93/DA0/SDA3/TxD2
P92/TB2IN/DIGR0
P91/TB1IN
P90/TB0IN
BYTE
CNVSS
P87/XCIN/DIGG0
P86/XCOUT/DIGB0
RESET
XOUT
VSS
XIN
VCC1
CVIN1
VCCE
TVSETB
CVIN2
HLF2
VHOLD2
P102/AN0
P103/AN1
P104/AN2
P105/AN3/DIGB2
P106/AN4/DIGG2
P107/AN5/DIGR2
P00/D0
P01/D1
P02/D2
P03/D3
604 3C C_CVIN1
604 3E C_CVIN2
C_3.3V
C_5V1
[DMF] D6001
NC
[TP] DP602
[TP] DP601
W6001 NOT MOUNT
W6002 NOT MOUNT
C6001 100nF(Z) 25V
R6005 1K(J)
R6013 10K(J)
R6001 1K(J)
R6002 1K(J) NOT MOUNT
R6015 33K(J)
R6016 1K(J)
2.2uF(K) C6005
304 7C C_OSD_R0
802 4C C_ACP
801 8D C_RMT_IN
602:1F:801 4B C_BOOT
304 7C C_OSD_G0
304 7D C_OSD_B0
C_RST
602:1E:603:2D:801:4B
R6018 47(J)
R6003 2.2K(J)
R6004 47K(J)
R6014 100(J)
R6019 47(J)
R6020 47(J)
R6008 1K(J)
3.29
3.29
R6119 68K(J)
W6003
R6024 47(J) NOT MOUNT
R6025 1M(J) NOT MOUNT
R6007 10K(J) NOT MOUNT
R6006 1K(J)
NOT MOUNT
220pF(J) C6009
C6007 1nF(K)
C6003 100nF(Z) 25V
C6002 100nF(Z) 25V
[XCMA] X6001
CSTCE10M0G52-R0
(GND)
D_GND
R6009 33K(J)
C6010 330pF(J)
C6011 330pF(J)
R6010 1K(J)
R6011 1K(J)
R6012 1K(J)
R6023 47(J)
R6022 47(J)
R6021 47(J)
C_KEY_AB 601 6F
C_AFT2 802 8B
C_AFT1 802 8A
C_OSD_B2 304 7C
C_OSD_G2 304 7C
C_OSD_R2 304 7C
C_D[0-3] 603 3C
[RMX4A] RM601
C_D[0] C_D[1] C_D[2] C_D[3]
47(J) 31mW
R6017 1K(J)
C6004 100nF(Z) 25V
C6008 220pF(J)
C6012 1nF(K)
C6006 2.2uF(K)

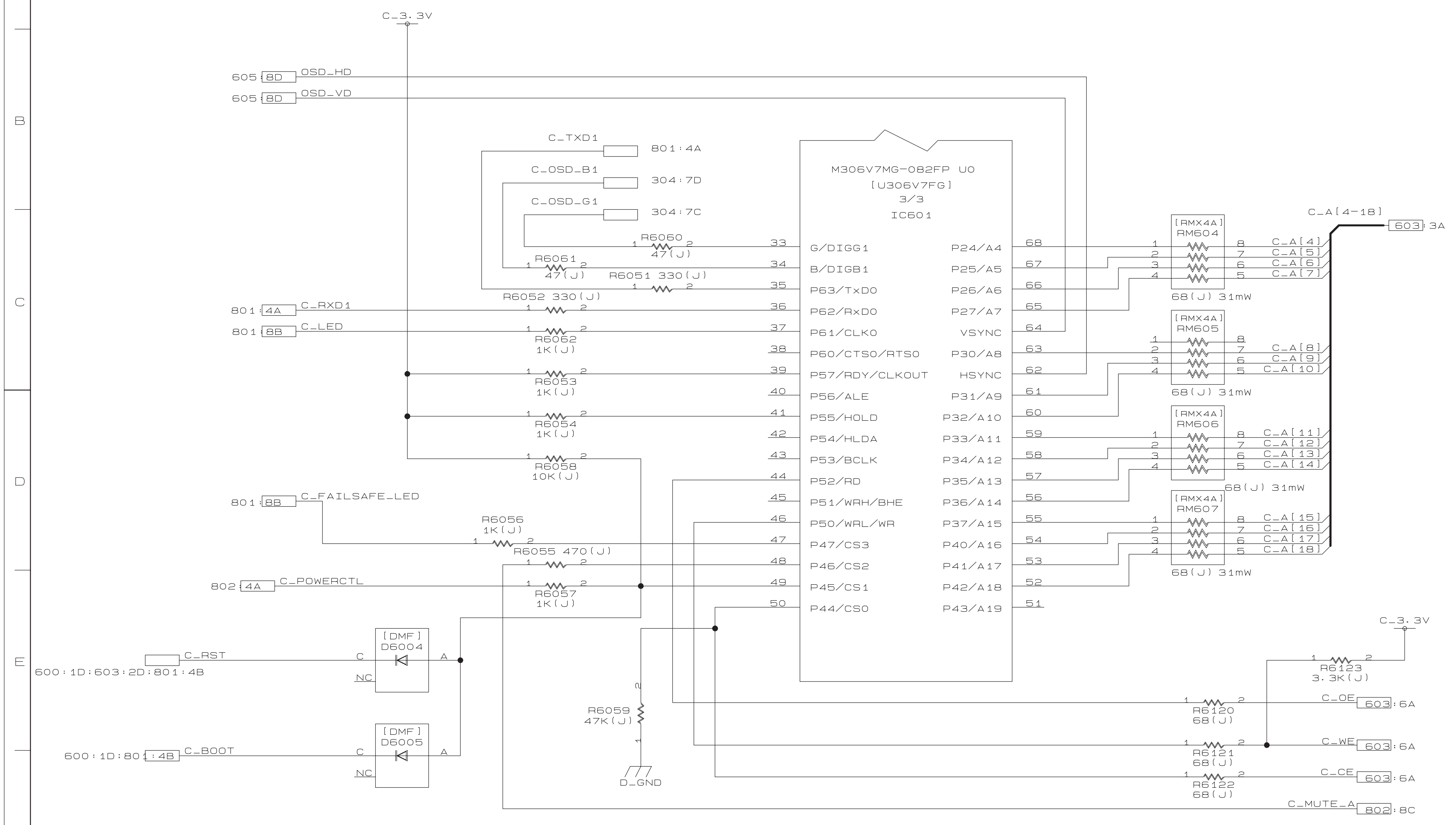
46HM84/52HM84/62HM84
MICON (1/3)
SHEET-1/3

SH. NO.
600


M306V7MG-082FP U0
[U306V7FG]
2/3
IC601
OSC1/OSCHLF
OSC2
P83/INT1
P82/INT0
OUT1
OUT2
P77/HC1
P76/TA3OUT
P75/HC0
P74/TA2OUT
P73/CTS2.RTS2
P72/SCL2/CLK2
P71/SCL1/RxD2
P70/SDA1/TxD2
P67/SDA2
R/DIGR1
P04/D4
P05/D5
P06/D6
P07/D7
P10/D8
P11/D9
P12/D10
P13/D11
P14/D12
P15/D13
P16/D14
P17/D15
P20/A0
P21/A1
P22/A2
P23/A3
605:8D M_OSDCK
R6029 1K(J) NOT MOUNT
D_GND
YM_OSD 605:8D
YS_OSD 605:8D
C_BEPMRSTO 213:3C:503:4E
C_3.3V
R6124 4.7K(J) 63mW
NOT MOUNT
R6026 1K(J)
802:4D DOOR_OPEN
604:8A C_MAIN_SYNC_DET
R6040 100(J)
R6028 100(J)
R6050 100(J)
210:2C G_IRQ
R6047 100(J)
604:8B C_MAIN_SYNC
R6041 1K(J)
604:8D C_SUB_SYNC
R6030 1K(J)
200:4B:205:2B:206:1D PIP_VD
R6049 100(J)
R6031 100(J)
R6032 100(J)
801:4B TV_SCL0
213:3B:503:2C:802:4D TV_SCL1
R6033 100(J)
213:3B:503:2D:802:4E TV_SDA1
R6034 100(J)
801:4B TV_SDA0
R6035 100(J)
R6042 47(J)
NOT MOUNT
C6014 15nF(K) 50V
R6027 10K(J)
C6013 2pF(C) 50V
NOT MOUNT
NOT MOUNT
C_5V1
R6044 10K(J)
R6043 10K(J)
EEPROM
[MSEE32K8]
IC603
SDA
SCL
R6045 100(J)
R6046 100(J)
A0
A1
NC
WP
[Vss] [Vcc]
AT24C256N-10SJ-2.7
C_5V1
C6015 10V 1uF(Z)
D_GND
C_OSD_R1 304:7C
C_RMT_OUT 801:8D
601:8C C_KEY_AB_SW
C_3.3V
MUXDMUX
[7W53]
IC604
INH
A
CH0
COMMON CH1
[VEE]
[VCC] [VSS]
KEY1 801:8B
KEY2 801:8B
C6016 100nF(Z) 25V
D_GND
C_KEY_AB 600:8D
[RMX4A]
RM602
47(J) 31mW
C_D[4-7] 603:8C
C_D[4]
C_D[5]
C_D[6]
C_D[7]
R6048 100(J)
R6036 1K(J)
R6037 1K(J)
MOUNT
R6038 1K(J)
C_MUTE_E 802:8D
C_KEY_AB_SW 601:3F
C_SP_MUTE 802:8D
R6039 1K(J)
C_HDMIRST 802:8E
[RMX4A]
RM603
68(J)
31mW
C_A[0-3] 603:3A
C_A[0]
C_A[1]
C_A[2]
C_A[3]

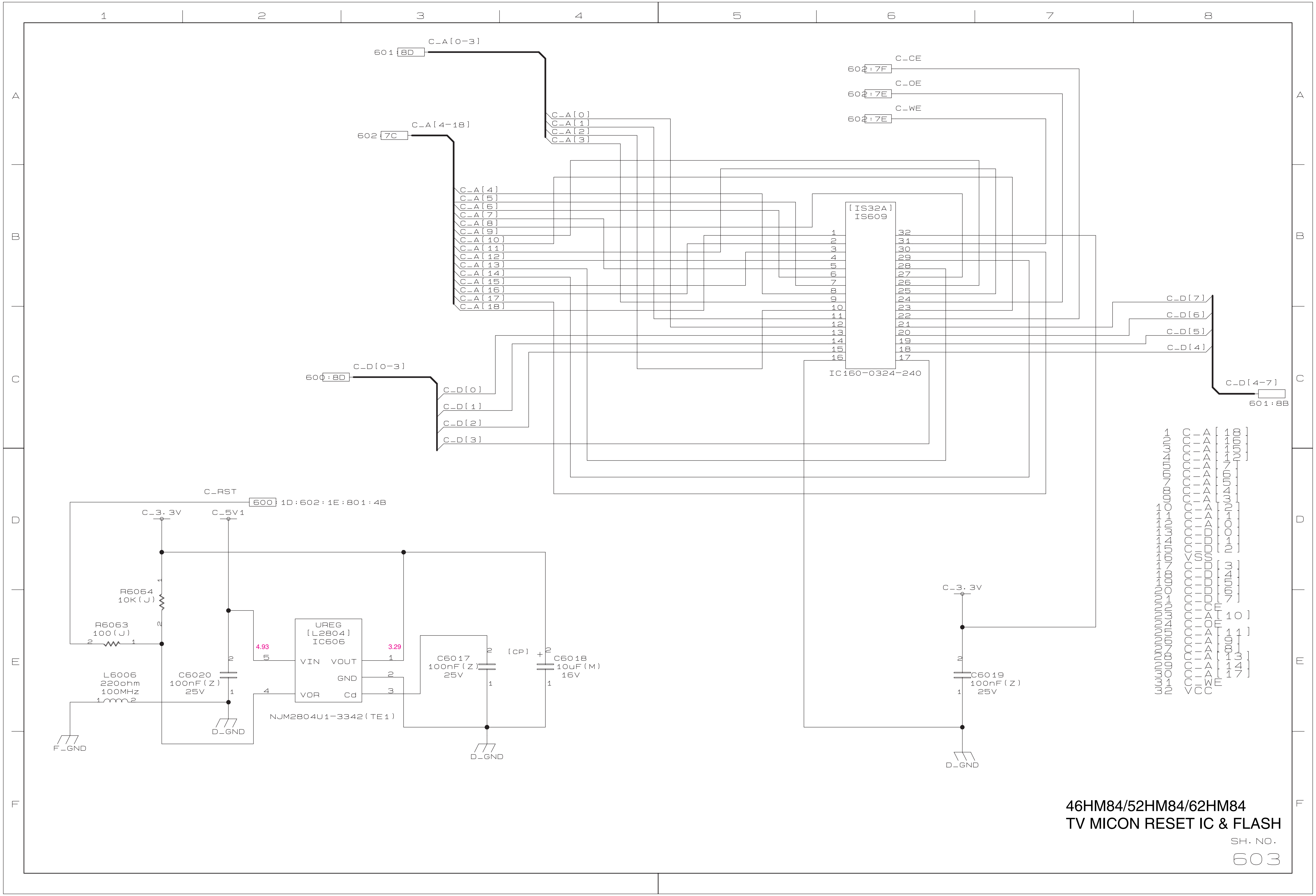
46HM84/52HM84/62HM84
MICON (2/3)
SHEET-2/3

SH. NO.
601

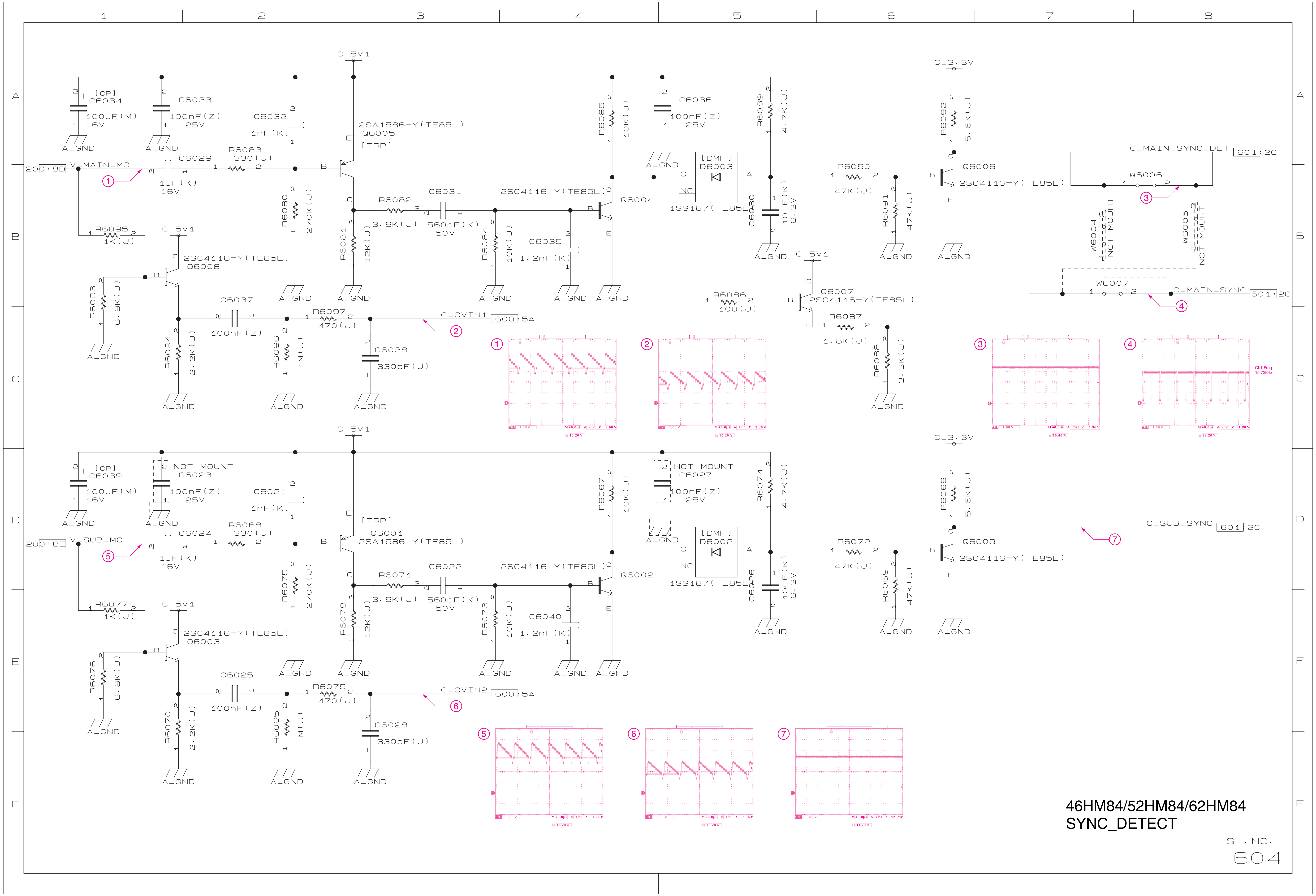

C_3.3V
605 8D OSD_HD
605 8D OSD_VD
C_TXD1 801:4A
C_OSD_B1 304:7D
C_OSD_G1 304:7C
M306V7MG-082FP U0
[U306V7FG]
3/3
IC601
R6060 47(J)
R6061 47(J)
R6051 330(J)
R6052 330(J)
801 4A C_RXD1
801 8B C_LED
R6062 1K(J)
R6053 1K(J)
R6054 1K(J)
R6058 10K(J)
801 8B C_FAILSAFE_LED
R6056 1K(J)
R6055 470(J)
802 4A C_POWERCTL
R6057 1K(J)
33 G/DIGG1
34 B/DIGB1
35 P63/TxD0
36 P62/RxD0
37 P61/CLK0
38 P60/CTS0/RTS0
39 P57/RDY/CLKOUT
40 P56/ALE
41 P55/HOLD
42 P54/HLDA
43 P53/BCLK
44 P52/RD
45 P51/WRH/BHE
46 P50/WRL/WR
47 P47/CS3
48 P46/CS2
49 P45/CS1
50 P44/CS0
P24/A4 68
P25/A5 67
P26/A6 66
P27/A7 65
VSYNC 64
P30/A8 63
HSYNC 62
P31/A9 61
P32/A10 60
P33/A11 59
P34/A12 58
P35/A13 57
P36/A14 56
P37/A15 55
P40/A16 54
P41/A17 53
P42/A18 52
P43/A19 51
[RMX4A] RM604 68(J) 31mW
[RMX4A] RM605 68(J) 31mW
[RMX4A] RM606 68(J) 31mW
[RMX4A] RM607 68(J) 31mW
C_A[4-18] 603:3A
C_A[4]
C_A[5]
C_A[6]
C_A[7]
C_A[8]
C_A[9]
C_A[10]
C_A[11]
C_A[12]
C_A[13]
C_A[14]
C_A[15]
C_A[16]
C_A[17]
C_A[18]
C_RST
600:1D:603:2D:801:4B
[DMF] D6004
C_BOOT
600:1D:801:4B
[DMF] D6005
C NC A
R6059 47K(J)
D_GND
C_3.3V
R6123 3.3K(J)
R6120 68(J) C_OE 603:6A
R6121 68(J) C_WE 603:6A
R6122 68(J) C_CE 603:6A
C_MUTE_A 802:8C

46HM84/52HM84/62HM84
MICON (3/3)
SHEET-3/3

SH. NO.
602

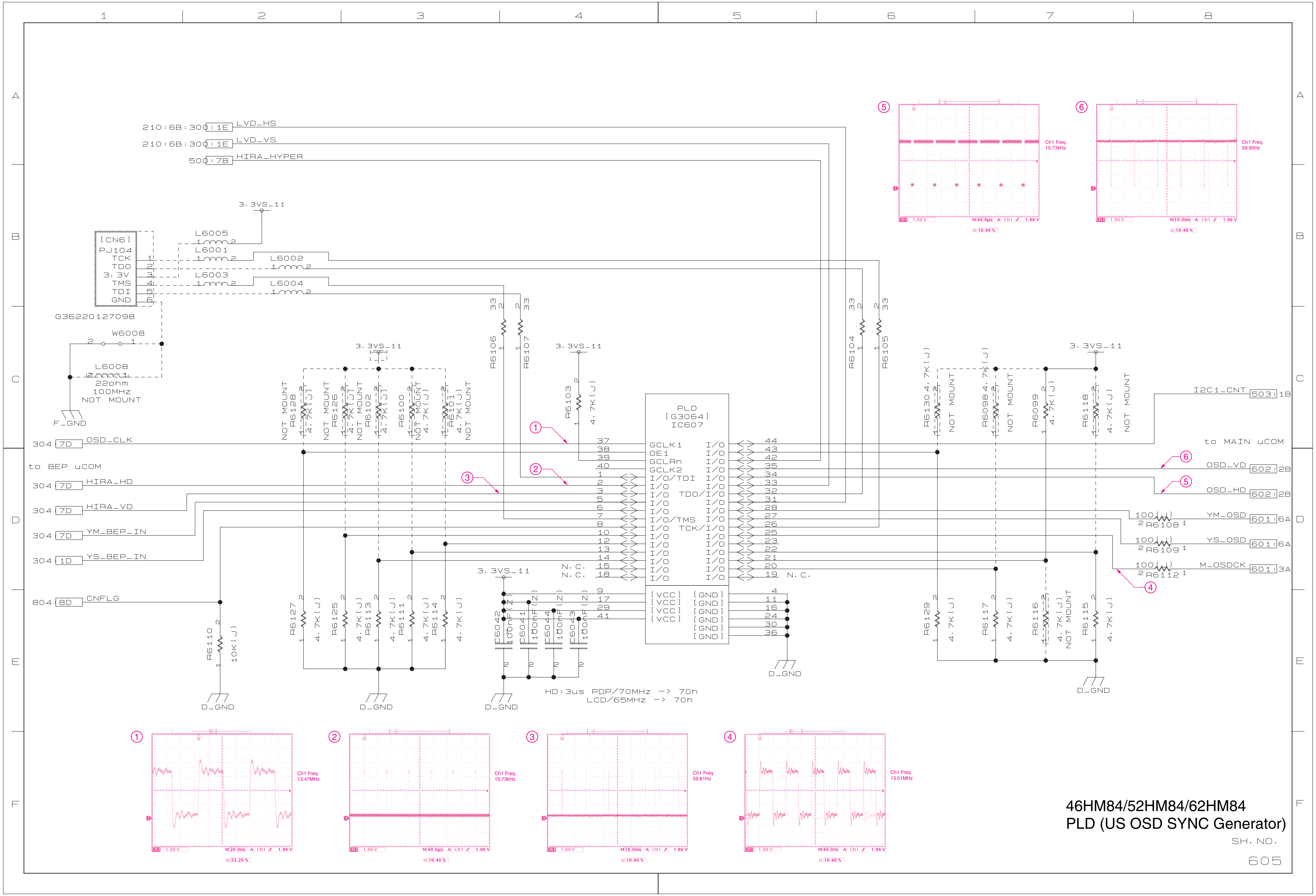

C_A[0-3]
601:8D
602:7C
C_A[4-18]
C_A[0]
C_A[1]
C_A[2]
C_A[3]
C_A[4]
C_A[5]
C_A[6]
C_A[7]
C_A[8]
C_A[9]
C_A[10]
C_A[11]
C_A[12]
C_A[13]
C_A[14]
C_A[15]
C_A[16]
C_A[17]
C_A[18]
C_CE
602:7F
C_OE
602:7E
C_WE
602:7E
[IS32A]
IS609
IC160-0324-240
C_D[0-3]
600:8D
C_D[0]
C_D[1]
C_D[2]
C_D[3]
C_D[7]
C_D[6]
C_D[5]
C_D[4]
C_D[4-7]
601:8B
C_RST
600 1D:602:1E:801:4B
C_3.3V
C_5V1
R6064
10K(J)
R6063
100(J)
L6006
220ohm
100MHz
F_GND
C6020
100nF(Z)
25V
D_GND
4.93
3.29
UREG
[L2804]
IC606
VIN
VOUT
GND
VOR
Cd
NJM2804U1-3342(TE1)
C6017
100nF(Z)
25V
[CP]
C6018
10uF(M)
16V
C6019
100nF(Z)
25V
1 C_A[18]
2 C_A[16]
3 C_A[15]
4 C_A[12]
5 C_A[7]
6 C_A[6]
7 C_A[5]
8 C_A[4]
9 C_A[3]
10 C_A[2]
11 C_A[1]
12 C_A[0]
13 C_D[0]
14 C_D[1]
15 C_D[2]
16 VSS
17 C_D[3]
18 C_D[4]
19 C_D[5]
20 C_D[6]
21 C_D[7]
22 C_CE
23 C_A[10]
24 C_OE
25 C_A[11]
26 C_A[9]
27 C_A[8]
28 C_A[13]
29 C_A[14]
30 C_A[17]
31 C_WE
32 VCC

46HM84/52HM84/62HM84
TV MICON RESET IC & FLASH
SH. NO.
603


C_5V1
C_3.3V
20D:8D
V_MAIN_MC
20D:8E
V_SUB_MC
[CP] C6034 100uF(M) 16V
C6033 100nF(Z) 25V
C6032 1nF(K)
C6029 1uF(K) 16V
R6083 330(J)
2SA1586-Y(TE85L) Q6005 [TRP]
R6080 270K(J)
R6081 12K(J)
R6082 3.9K(J)
C6031 560pF(K) 50V
R6084 10K(J)
C6035 1.2nF(K)
2SC4116-Y(TE85L) Q6004
R6085 10K(J)
C6036 100nF(Z) 25V
[DMF] D6003 1SS187(TE85L)
NC
R6089 4.7K(J)
C6030 10uF(K) 6.3V
R6090 47K(J)
R6091 47K(J)
R6092 5.6K(J)
Q6006 2SC4116-Y(TE85L)
C_MAIN_SYNC_DET 601:2C
W6006
W6004 NOT MOUNT
W6005 NOT MOUNT
W6007
C_MAIN_SYNC 601:2C
R6086 100(J)
Q6007 2SC4116-Y(TE85L)
R6087 1.8K(J)
R6088 3.3K(J)
R6095 1K(J)
2SC4116-Y(TE85L) Q6008
R6093 6.8K(J)
C6037 100nF(Z)
R6094 2.2K(J)
R6096 1M(J)
R6097 470(J)
C6038 330pF(J)
C_CVIN1 600:5A
[CP] C6039 100uF(M) 16V
NOT MOUNT C6023 100nF(Z) 25V
C6021 1nF(K)
C6024 1uF(K) 16V
R6068 330(J)
[TRP] Q6001 2SA1586-Y(TE85L)
R6075 270K(J)
R6078 12K(J)
R6071 3.9K(J)
C6022 560pF(K) 50V
R6073 10K(J)
C6040 1.2nF(K)
2SC4116-Y(TE85L) Q6002
R6067 10K(J)
NOT MOUNT C6027 100nF(Z) 25V
[DMF] D6002 1SS187(TE85L)
R6074 4.7K(J)
C6026 10uF(K) 6.3V
R6072 47K(J)
R6069 47K(J)
R6066 5.6K(J)
Q6009 2SC4116-Y(TE85L)
C_SUB_SYNC 601:2C
R6077 1K(J)
2SC4116-Y(TE85L) Q6003
R6076 6.8K(J)
C6025 100nF(Z)
R6070 2.2K(J)
R6065 1M(J)
R6079 470(J)
C6028 330pF(J)
C_CVIN2 600:5A
A_GND
①
②
③
④
⑤
⑥
⑦
Ch1 Freq 15.73kHz
1 2 3 4 5 6 7 8
A B C D E F

46HM84/52HM84/62HM84
SYNC_DETECT

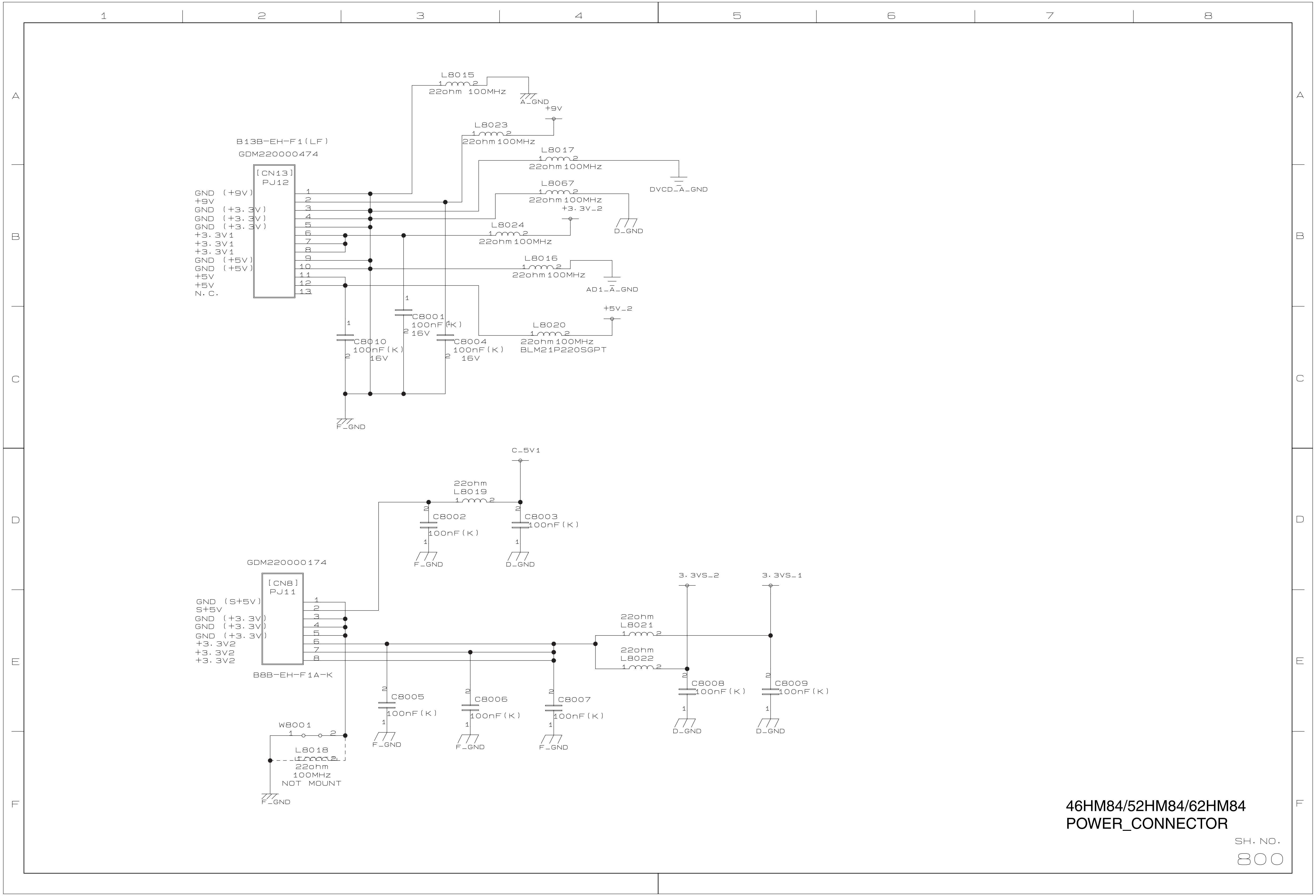
SH. NO.
604



1
2
3
4
5
6
7
8
A
B
C
D
E
F
210:6B:300:1E LVD_HS
210:6B:300:1E LVD_VS
500:7B HIRA_HYPER
3.3VS_11
[CN6]
PJ104
TCK
TDO
3.3V
TMS
TDI
GND
G36220127098
L6005
L6001
L6002
L6003
L6004
W6008
L6008
22ohm
100MHz
NOT MOUNT
F_GND
R6106
R6107
33
R6104
R6105
R6128
R6126
R6102
R6100
R6101
4.7K(J)
R6103
PLD
[G3064]
IC607
GCLK1
OE1
GCLRn
GCLK2
I/O/TDI
I/O
TDO/I/O
I/O/TMS
TCK/I/O
[VCC]
[GND]
N.C.
304:7D OSD_CLK
to BEP uCOM
304:7D HIRA_HD
304:7D HIRA_VD
304:7D YM_BEP_IN
304:1D YS_BEP_IN
804:8D CNFLG
R6110
10K(J)
D_GND
R6127
R6125
R6113
R6111
R6114
C6042
C6041
C6044
C6043
100nF(Z)
HD:3us PDP/70MHz -> 70h
LCD/65MHz -> 70h
R6130
R6098
R6099
R6118
R6129
R6117
R6116
R6115
I2C1_CNT 503:1B
to MAIN uCOM
OSD_VD 602:2B
OSD_HD 602:2B
YM_OSD 601:6A
R6108
YS_OSD 601:6A
R6109
M_OSDCK 601:3A
R6112
100(J)
①
②
③
④
⑤
⑥
Ch1 Freq. 13.47MHz
Ch1 Freq. 15.73kHz
Ch1 Freq. 59.81Hz
Ch1 Freq. 13.51MHz
Ch1 Freq. 15.73kHz
Ch1 Freq. 59.95Hz

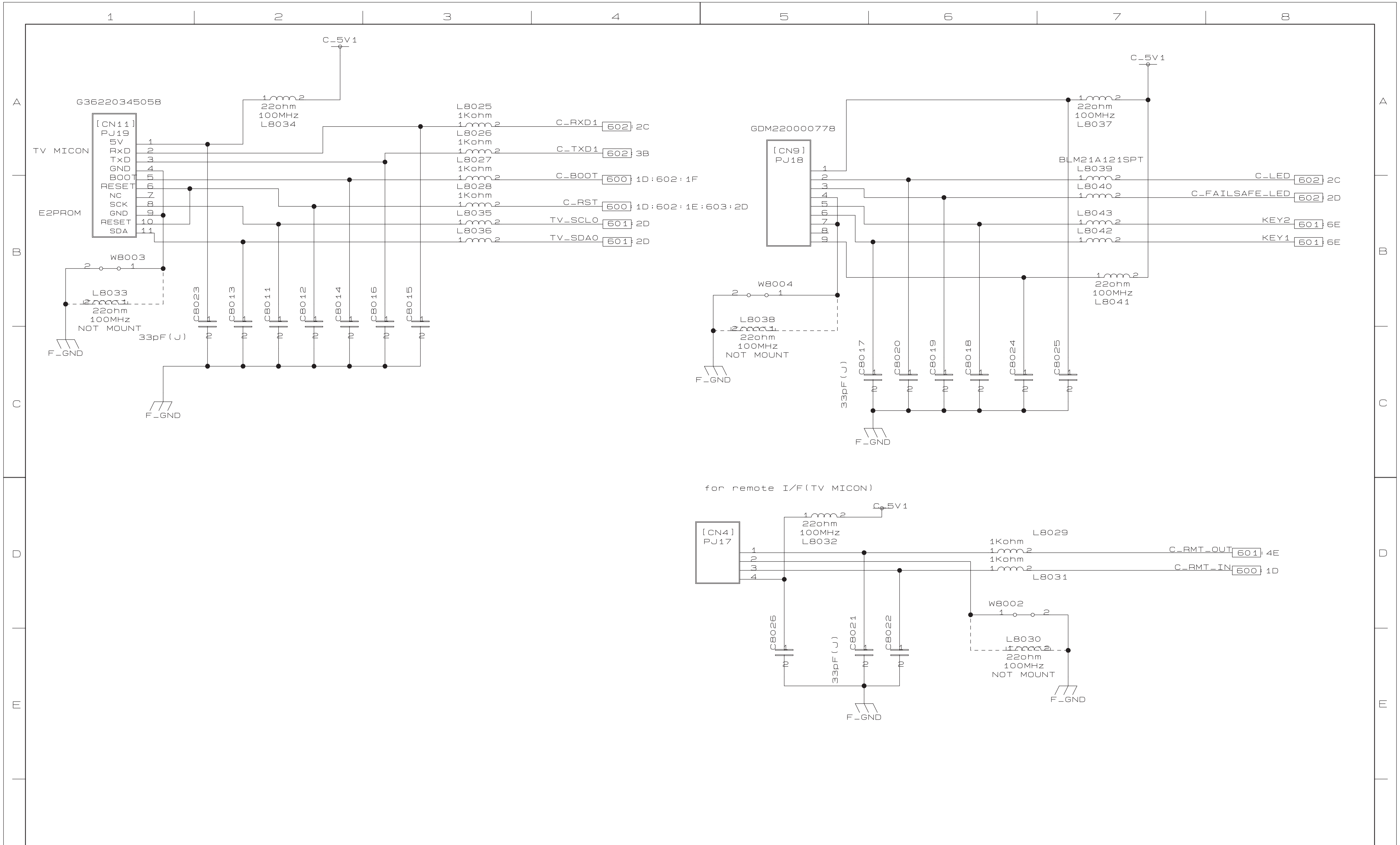
46HM84/52HM84/62HM84
PLD (US OSD SYNC Generator)

SH. NO.
605


B13B-EH-F1(LF)
GDM220000474
[CN13]
PJ12
GND (+9V)
+9V
GND (+3.3V)
GND (+3.3V)
GND (+3.3V)
+3.3V1
+3.3V1
+3.3V1
GND (+5V)
GND (+5V)
+5V
+5V
N.C.
L8015
22ohm 100MHz
A_GND
+9V
L8023
22ohm 100MHz
L8017
22ohm 100MHz
DVCD_A_GND
L8067
22ohm 100MHz
+3.3V_2
D_GND
L8024
22ohm 100MHz
L8016
22ohm 100MHz
AD1_A_GND
+5V_2
L8020
22ohm 100MHz
BLM21P220SGPT
C8001
100nF(K)
16V
C8010
100nF(K)
16V
C8004
100nF(K)
16V
F_GND
C_5V1
22ohm
L8019
C8002
100nF(K)
C8003
100nF(K)
F_GND
D_GND
GDM220000174
[CN8]
PJ11
GND (S+5V)
S+5V
GND (+3.3V)
GND (+3.3V)
GND (+3.3V)
+3.3V2
+3.3V2
+3.3V2
B8B-EH-F1A-K
3.3VS_2
3.3VS_1
22ohm
L8021
22ohm
L8022
C8005
100nF(K)
C8006
100nF(K)
C8007
100nF(K)
C8008
100nF(K)
C8009
100nF(K)
F_GND
F_GND
F_GND
D_GND
D_GND
W8001
L8018
22ohm
100MHz
NOT MOUNT
F_GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

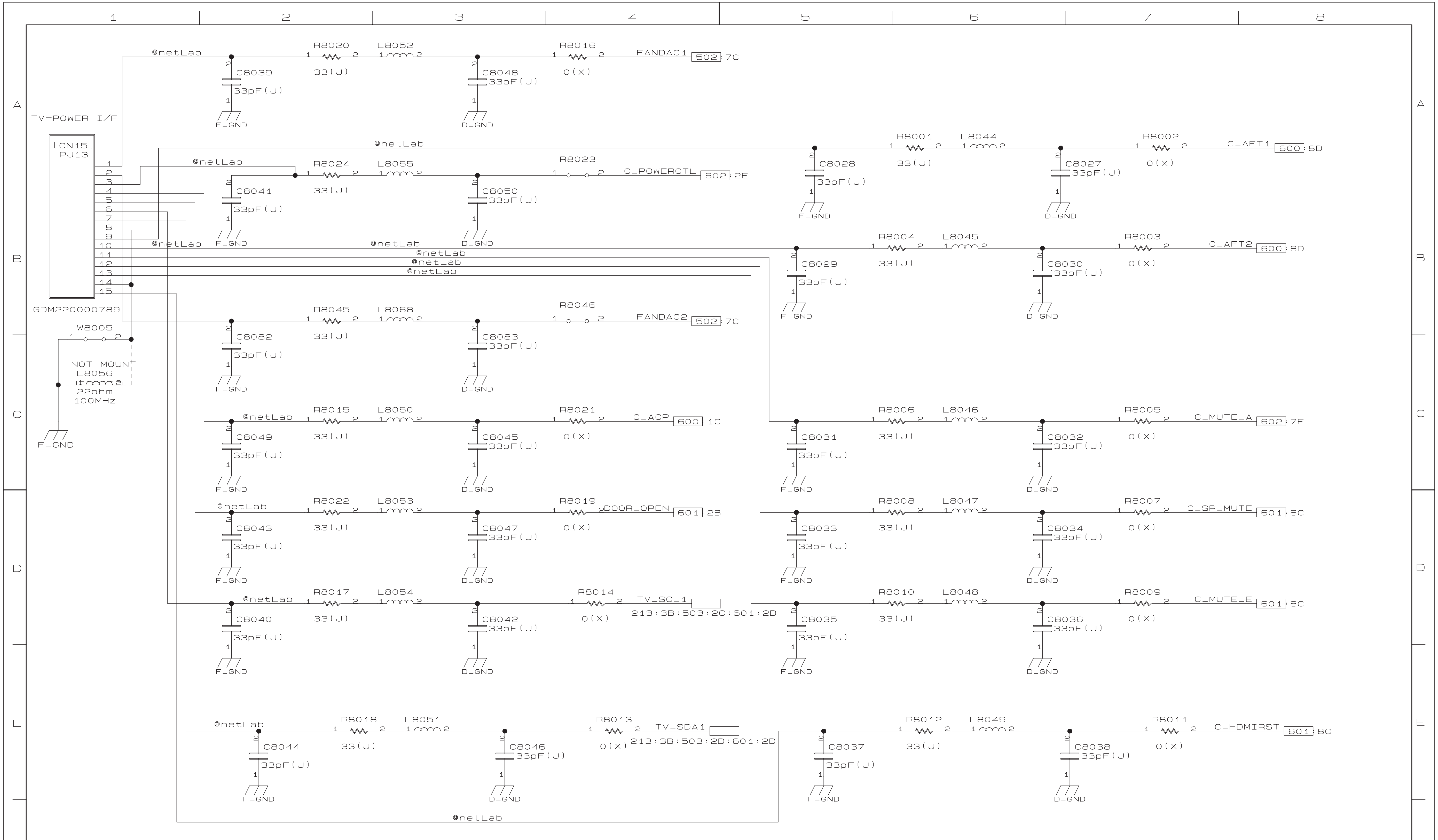
46HM84/52HM84/62HM84
POWER_CONNECTOR

SH. NO.
800


1
2
3
4
5
6
7
8
A
B
C
D
E
F
C_5V1
G36220345058
[CN11]
PJ19
TV MICON
5V
RxD
TxD
GND
BOOT
RESET
NC
SCK
GND
RESET
SDA
E2PROM
22ohm
100MHz
L8034
L8025
1Kohm
L8026
1Kohm
L8027
1Kohm
L8028
1Kohm
L8035
L8036
C_RXD1
602 2C
C_TXD1
602 3B
C_BOOT
600 1D:602:1F
C_RST
600 1D:602:1E:603:2D
TV_SCL0
601 2D
TV_SDA0
601 2D
W8003
L8033
22ohm
100MHz
NOT MOUNT
F_GND
C8023
C8013
C8011
C8012
C8014
C8016
C8015
33pF(J)
F_GND
GDM220000778
[CN9]
PJ18
C_5V1
22ohm
100MHz
L8037
BLM21A121SPT
L8039
L8040
L8043
L8042
C_LED
602 2C
C_FAILSAFE_LED
602 2D
KEY2
601 6E
KEY1
601 6E
22ohm
100MHz
L8041
W8004
L8038
22ohm
100MHz
NOT MOUNT
F_GND
C8017
C8020
C8019
C8018
C8024
C8025
33pF(J)
F_GND
for remote I/F(TV MICON)
C_5V1
[CN4]
PJ17
22ohm
100MHz
L8032
L8029
1Kohm
1Kohm
L8031
C_RMT_OUT
601 4E
C_RMT_IN
600 1D
W8002
L8030
22ohm
100MHz
NOT MOUNT
F_GND
C8026
C8021
C8022
33pF(J)
F_GND

46HM84/52HM84/62HM84
TV MICON CONNECTOR (1)

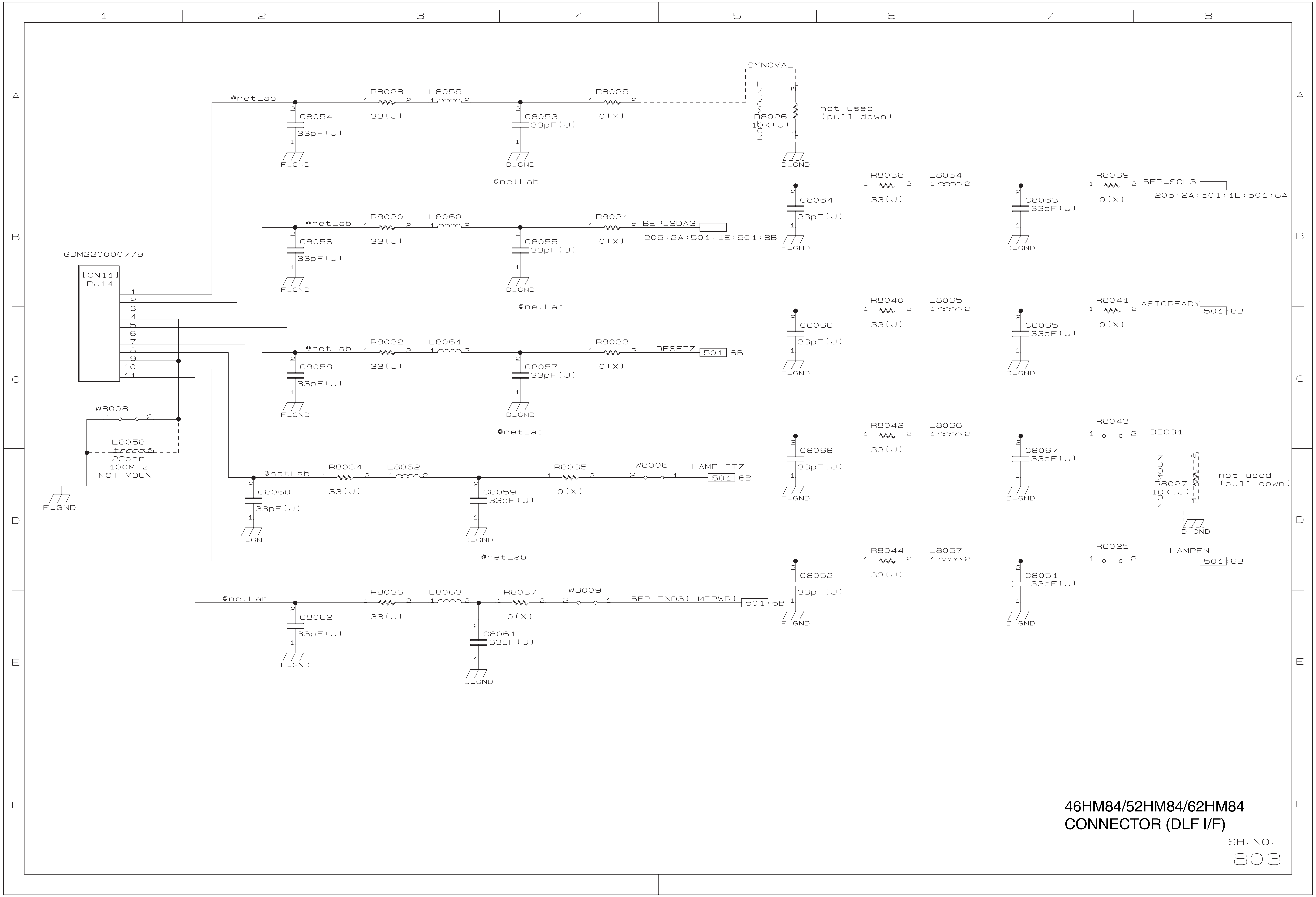
SH. NO.
801



1
2
3
4
5
6
7
8
A
B
C
D
E
F
TV-POWER I/F
[CN15]
PJ13
GDM220000789
W8005
NOT MOUNT
L8056
22ohm
100MHz
F_GND
D_GND
@netLab
R8020
33(J)
L8052
R8016
0(X)
FANDAC1
502
7C
C8039
33pF(J)
C8048
33pF(J)
R8024
L8055
R8023
C_POWERCTL
602
2E
C8041
C8050
R8001
L8044
R8002
C_AFT1
600
8D
C8028
C8027
R8004
L8045
R8003
C_AFT2
600
8D
C8029
C8030
R8045
L8068
R8046
FANDAC2
502
7C
C8082
C8083
R8015
L8050
R8021
C_ACP
600
1C
C8049
C8045
R8006
L8046
R8005
C_MUTE_A
602
7F
C8031
C8032
R8022
L8053
R8019
DOOR_OPEN
601
2B
C8043
C8047
R8008
L8047
R8007
C_SP_MUTE
601
8C
C8033
C8034
R8017
L8054
R8014
TV_SCL1
213:3B:503:2C:601:2D
C8040
C8042
R8010
L8048
R8009
C_MUTE_E
601
8C
C8035
C8036
R8018
L8051
R8013
TV_SDA1
213:3B:503:2D:601:2D
C8044
C8046
R8012
L8049
R8011
C_HDMIRST
601
8C
C8037
C8038

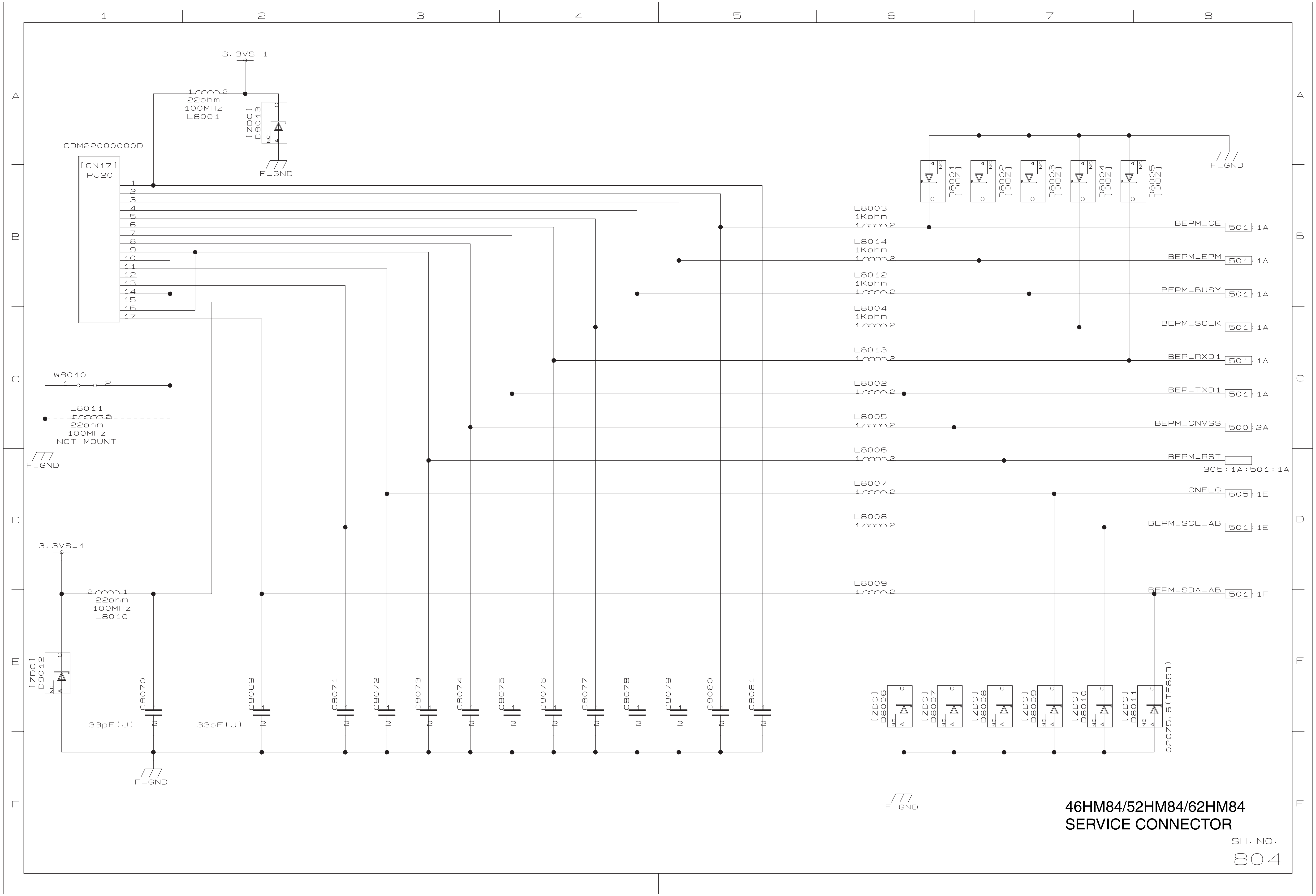
46HM84/52HM84/62HM84
CONNECTOR (TV MICON-POWER BOARD)

SH. NO.
802


GDM220000779
[CN11]
PJ14
1
2
3
4
5
6
7
8
9
10
11
@netLab
R8028
33(J)
L8059
C8054
33pF(J)
F_GND
C8053
33pF(J)
D_GND
R8029
0(X)
SYNCVAL
NOT MOUNT
R8026
10K(J)
not used
(pull down)
R8038
33(J)
L8064
C8064
33pF(J)
C8063
33pF(J)
R8039
0(X)
BEP_SCL3
205:2A:501:1E:501:8A
R8030
33(J)
L8060
C8056
33pF(J)
C8055
33pF(J)
R8031
0(X)
BEP_SDA3
205:2A:501:1E:501:8B
R8040
33(J)
L8065
C8066
33pF(J)
C8065
33pF(J)
R8041
0(X)
ASICREADY
501:8B
R8032
33(J)
L8061
C8058
33pF(J)
C8057
33pF(J)
R8033
0(X)
RESETZ
501:6B
W8008
L8058
22ohm
100MHz
NOT MOUNT
R8042
33(J)
L8066
C8068
33pF(J)
C8067
33pF(J)
R8043
DIO31
NOT MOUNT
R8027
10K(J)
not used
(pull down)
R8034
33(J)
L8062
C8060
33pF(J)
C8059
33pF(J)
R8035
0(X)
W8006
LAMPLITZ
501:6B
R8044
33(J)
L8057
C8052
33pF(J)
C8051
33pF(J)
R8025
LAMPEN
501:6B
R8036
33(J)
L8063
C8062
33pF(J)
R8037
0(X)
C8061
33pF(J)
W8009
BEP_TXD3(LMPPWR)
501:6B
1
2
3
4
5
6
7
8
A
B
C
D
E
F

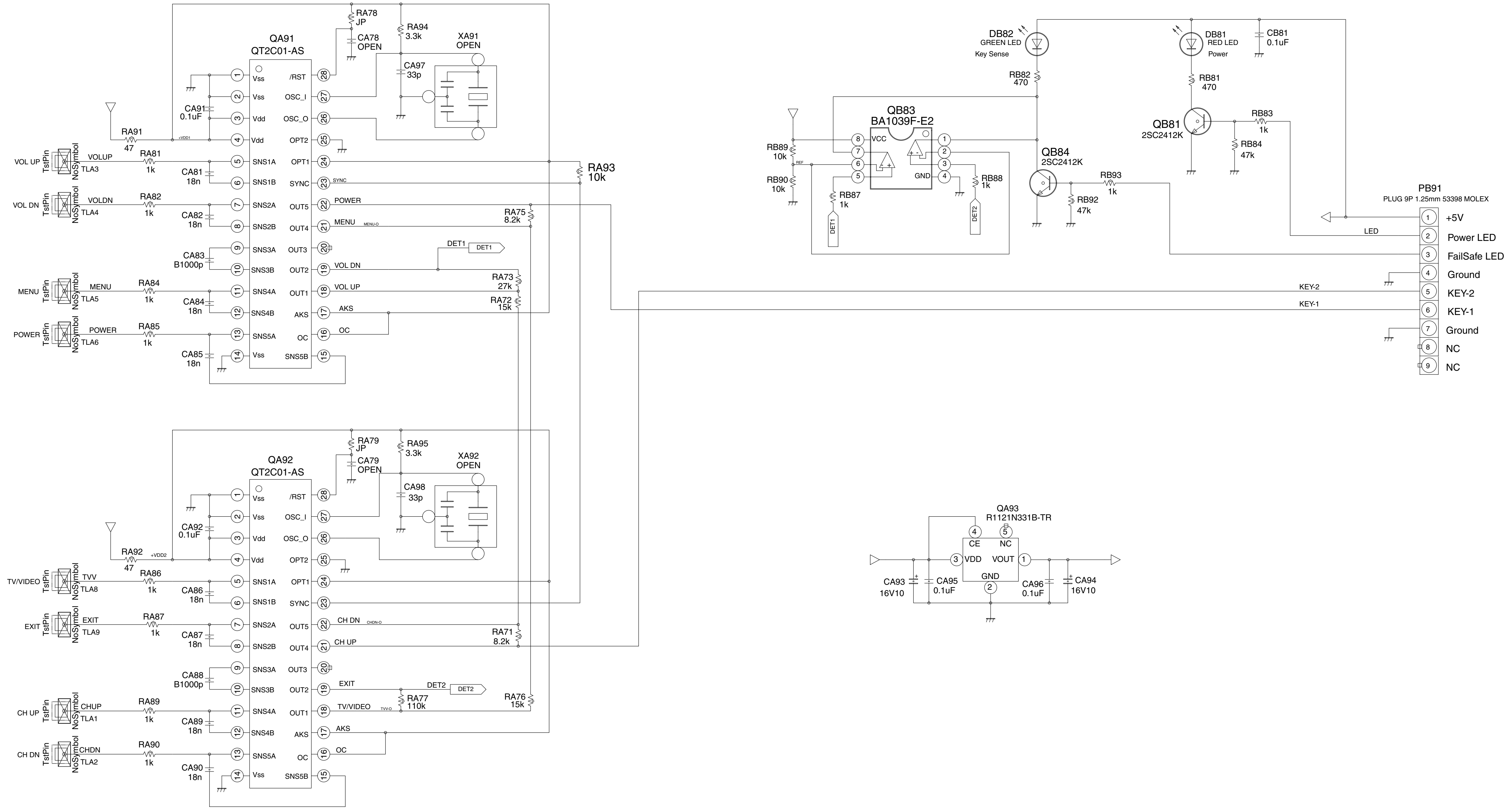
46HM84/52HM84/62HM84
CONNECTOR (DLF I/F)

SH. NO.
803

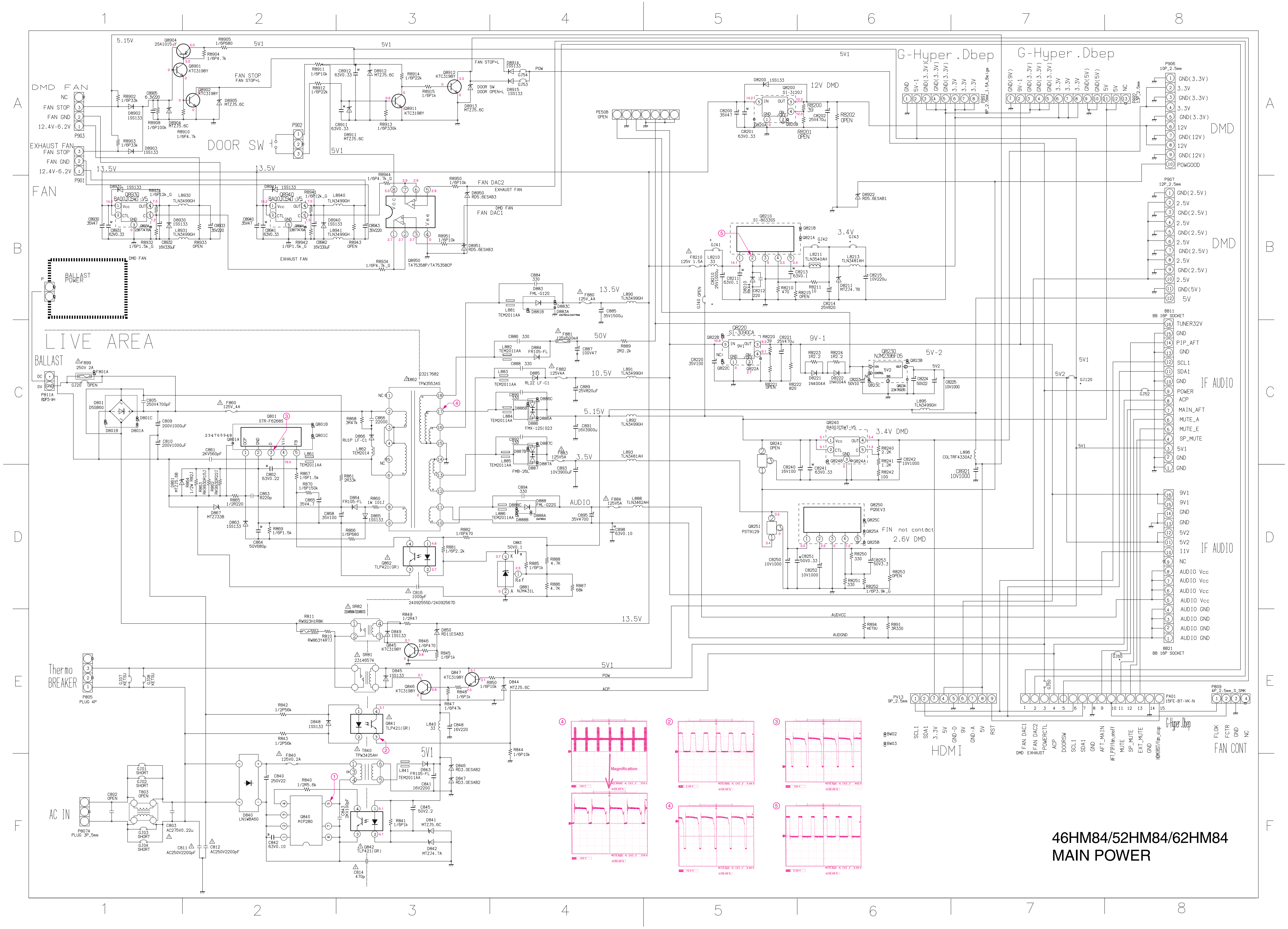

1
2
3
4
5
6
7
8
A
B
C
D
E
F
3.3VS_1
1 2
22ohm
100MHz
L8001
[ZDC]
D8013
F_GND
GDM22000000D
[CN17]
PJ20
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
W8010
1 2
L8011
22ohm
100MHz
NOT MOUNT
F_GND
D8001
D8002
D8003
D8004
D8005
[ZDC]
F_GND
L8003
1Kohm
BEPM_CE
501
1A
L8014
1Kohm
BEPM_EPM
501
1A
L8012
1Kohm
BEPM_BUSY
501
1A
L8004
1Kohm
BEPM_SCLK
501
1A
L8013
BEP_RXD1
501
1A
L8002
BEP_TXD1
501
1A
L8005
BEPM_CNVSS
500
2A
L8006
BEPM_RST
305:1A:501:1A
L8007
CNFLG
605
1E
L8008
BEPM_SCL_AB
501
1E
L8009
BEPM_SDA_AB
501
1F
3.3VS_1
2 1
22ohm
100MHz
L8010
[ZDC]
D8012
C8070
C8069
33pF(J)
33pF(J)
C8071
C8072
C8073
C8074
C8075
C8076
C8077
C8078
C8079
C8080
C8081
F_GND
[ZDC]
D8006
D8007
D8008
D8009
D8010
D8011
02CZ5.6(TE85R)
F_GND
NC
A
C

46HM84/52HM84/62HM84
SERVICE CONNECTOR

SH. NO.
804

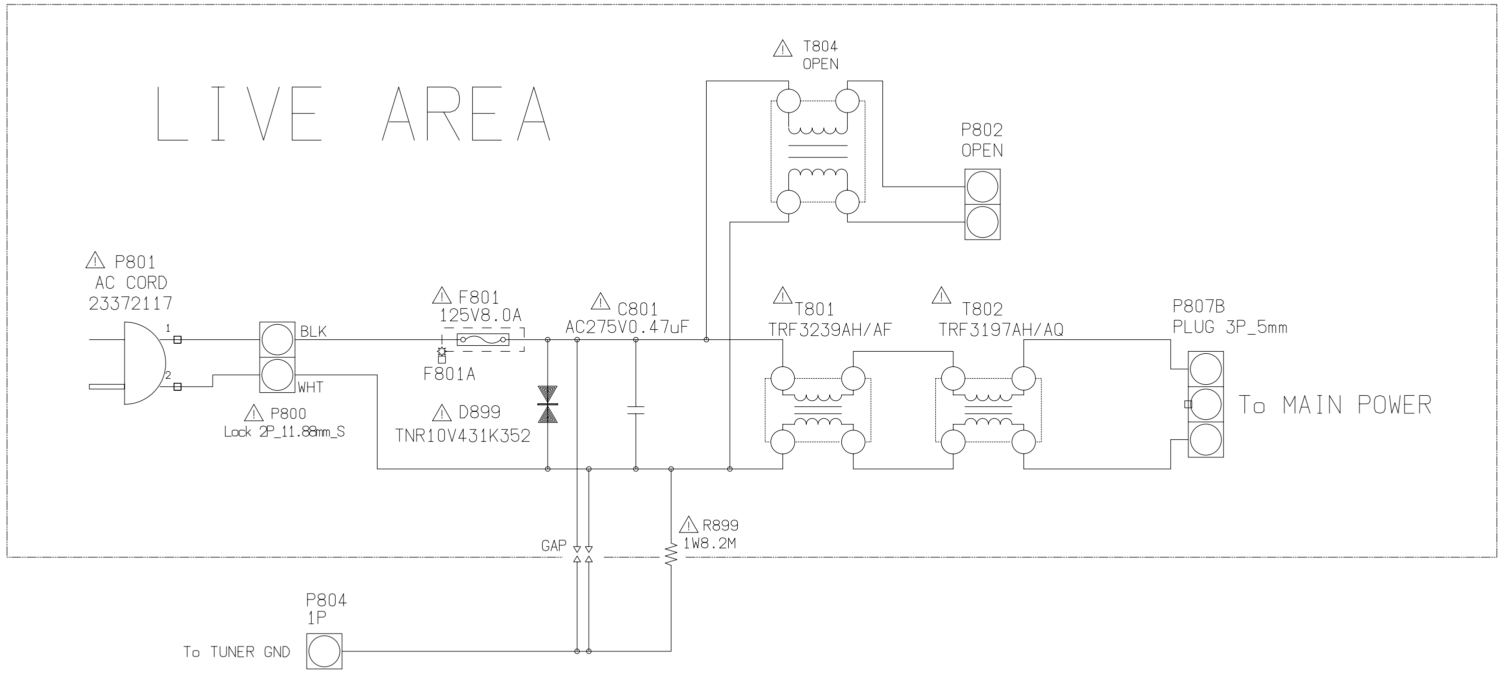

QA91
QT2C01-AS
QA92
QT2C01-AS
RA78 JP
CA78 OPEN
RA94 3.3k
CA97 33p
XA91 OPEN
RA79 JP
CA79 OPEN
RA95 3.3k
CA98 33p
XA92 OPEN
CA91 0.1uF
CA92 0.1uF
RA91 47
RA92 47
+VDD1
+VDD2
Vss
Vdd
SNS1A
SNS1B
SNS2A
SNS2B
SNS3A
SNS3B
SNS4A
SNS4B
SNS5A
SNS5B
/RST
OSC_I
OSC_O
OPT2
OPT1
SYNC
OUT5
OUT4
OUT3
OUT2
OUT1
AKS
OC
VOL UP
VOLUP
TLA3
RA81 1k
CA81 18n
VOL DN
VOLDN
TLA4
RA82 1k
CA82 18n
CA83 B1000p
MENU
TLA5
RA84 1k
CA84 18n
POWER
TLA6
RA85 1k
CA85 18n
TstPin
NoSymbol
RA93 10k
RA75 8.2k
RA73 27k
RA72 15k
DET1
MENU-O
TV/VIDEO
TVV
TLA8
RA86 1k
CA86 18n
EXIT
TLA9
RA87 1k
CA87 18n
CA88 B1000p
CH UP
CHUP
TLA1
RA89 1k
CA89 18n
CH DN
CHDN
TLA2
RA90 1k
CA90 18n
CH DN
CHDN-O
CH UP
RA71 8.2k
DET2
RA77 110k
RA76 15k
TVV-O
DB82
GREEN LED
Key Sense
DB81
RED LED
Power
CB81 0.1uF
RB82 470
RB81 470
QB83
BA1039F-E2
VCC
GND
REF
RB89 10k
RB90 10k
RB87 1k
RB88 1k
QB81
2SC2412K
RB83 1k
RB84 47k
QB84
2SC2412K
RB93 1k
RB92 47k
PB91
PLUG 9P 1.25mm 53398 MOLEX
+5V
Power LED
FailSafe LED
Ground
KEY-2
KEY-1
Ground
NC
NC
LED
QA93
R1121N331B-TR
CE
NC
VDD
VOUT
GND
CA93 16V10
CA95 0.1uF
CA96 0.1uF
CA94 16V10

46HM84/52HM84/62HM84
Front Key


DMD FAN
FAN
DOOR SW
LIVE AREA
BALLAST
BALLAST POWER
Thermo BREAKER
AC IN
G-Hyper.Dbep
12V DMD
DMD
3.4V
9V-1
5V-2
3.4V DMD
2.6V DMD
IF AUDIO
HDMI
FAN CONT
13.5V
50V
10.5V
5.15V
3.5V
AUDIO
5V1
FAN STOP
EXHAUST FAN
FAN DAC1
FAN DAC2
Magnification
1
2
3
4
5
6
7
8
A
B
C
D
E
F

46HM84/52HM84/62HM84
MAIN POWER

A


LIVE AREA
⚠ T804
OPEN
P802
OPEN
⚠ P801
AC CORD
23372117
1
2
BLK
WHT
⚠ P800
Lock 2P_11.88mm_S
⚠ F801
125V8.0A
F801A
⚠ D899
TNR10V431K352
⚠ C801
AC275V0.47uF
⚠ T801
TRF3239AH/AF
⚠ T802
TRF3197AH/AQ
P807B
PLUG 3P_5mm
To MAIN POWER
GAP
⚠ R899
1W8.2M
P804
1P
To TUNER GND

A

B

B

46HM84/52HM84/62HM84
AC IN